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Introduction

In your busy classroom, you know how vital it is to energize students for the tasks of the day. That’s why Morning Jumpstarts: Math, Grade 4 is the perfect tool for you.

The activities in this book provide brief and focused individual practice in grade-level skills students are expected to master. Each Jumpstart is a two-page collection of five activities designed to review and reinforce a range of math skills and concepts students will build throughout the year. The consistent format helps students work independently and with confidence. Each Jumpstart includes these features:

- Number Place
- Fast Math
- Think Tank
- Data Place
- Puzzler

You can use a Jumpstart in its entirety or, because each feature is self-contained, assign sections at different times of the day or to different groups of learners. The Jumpstart activities will familiarize students with the kinds of challenges they will encounter on standardized tests, and provide a review of skills they need to master. (See page 6 for a close-up look at the features in each Jumpstart.)

The Common Core State Standards (CCSS) for Mathematics serve as the backbone of the activities in this book. On pages 7–8, you’ll find a correlation chart that details how the 50 Jumpstarts dovetail with the widely accepted set of guidelines for preparing students to succeed in math.

Generally, we have kept in mind the eight CCSS “mathematical practices” that should inform solid math exploration, calculation, and interpretation.

Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.
How to Use This Book

*Morning Jumpstarts: Math, Grade 4* can be used in many ways—and not just in the morning! You know your students best, so feel free to pick and choose among the activities, and incorporate those as you see fit. You can make double-sided copies, or print one side at a time and staple the pages together.

We suggest the following times to present Jumpstarts:

- At the start of the school day, as a way to help students settle into the day’s routines.
- Before lunch, as students ready themselves for their midday break.
- After lunch, as a calming transition into the afternoon’s plans.
- Toward the end of the day, before students gather their belongings to go home, or as homework.

In general, the Jumpstarts progress in difficulty level and build on skills covered in previous sheets. Preview each one before you assign it to ensure that students have the skills needed to complete them. Keep in mind, however, that you may opt for some students to skip sections, as appropriate, or complete them together at a later time as part of a small-group or whole-class lesson.

Undoubtedly, students will complete Jumpstart activity pages at different rates. We suggest that you set up a “what to do when I’m done” plan to give students who need more time a chance to finish without interruption. For example, you might encourage students to complete another Jumpstart or get started on a math homework assignment.

An answer key begins on page 109. You might want to review answers with the whole class. This approach provides opportunities for discussion, comparison, extension, reinforcement, and correlation to other skills and lessons in your current plans. Your observations can direct the kinds of review or reinforcement you may want to add to your lessons. Alternatively, you may find that having students discuss activity solutions and strategies in small groups is another effective approach.

When you introduce the first Jumpstart, walk through its features with your class to provide an overview before you assign it and to make sure students understand the directions. Help students see that the activities in each section focus on different kinds of skills, and let them know that the same sections will repeat throughout each Jumpstart, always in the same order and position. You might want to work through the first few Jumpstarts as a group until students are comfortable with the routine and ready to work independently.

You know best how to assign the work to the students in your class. You might, for instance, stretch a Jumpstart over two days, assigning Side A on the first day and Side B on the second. Although the activities on different Jumpstarts vary in difficulty and in time needed, we anticipate that once students are familiar with the routine, most will be able to complete both sides of a Jumpstart in anywhere from 10 to 20 minutes.
Each two-page Jumpstart includes the following skill-building features.

**Number Place** The first feature on Side A reviews grade-appropriate place-value skills related to whole numbers, decimals, and fractions. Regardless of the particular presentation, students will use their knowledge of place value and their number sense to complete this feature. A solid place-value foundation is essential for success with computation and estimation, and for an overall grasp of numerical patterns and relationships.

**Fast Math** The second Side A feature addresses necessary grade-level computation skills with the goal of building automaticity, fluency, and accuracy. To work through these exercises, students draw upon their understanding of computation strategies and mathematical properties. In some instances, students will review skills that have been covered previously. This is a good way to keep math skills sharp and to point out to you where revisiting a skill or algorithm may be beneficial.

**Think Tank** This feature rounds out Side A by offering an original word problem that draws from a wide spectrum of grade-appropriate skills, strategies, and approaches. Some are single-step problems; others require multiple steps to solve. The think tank itself provides a place where students can draw, do computations, and work out their thinking. This is a particularly good section to discuss together, to share solutions, as well as to compare and contrast approaches and strategies. Encourage students to recognize that many problems can be solved in more than one way, or may have more than one solution.

**Data Place** Every Side B begins with an activity in which students solve problems based on reading, collecting, representing, and interpreting data that is presented in many formats: lists, tables, charts, pictures, and, mostly, in a variety of graphs. In our rapidly changing world, it is essential that students build visual literacy by becoming familiar with many kinds of graphic presentations. This feature presents the kinds of graphs students are likely to encounter online, on TV, and in newspapers and magazines. Some include data from other curriculum areas.

**Puzzler** Side B always ends with an entertaining challenge: a brainteaser, puzzle, non-routine problem, code, or other engaging task designed to stretch the mind. While some students may find this section particularly challenging, others will relish teasing out trick solutions. This feature provides another chance for group work or discussion. It may prove useful to have pairs of students tackle these together. And, when appropriate, invite students to create their own challenges, using ideas sparked by these exercises. Feel free to create your own variations of any brainteasers your class enjoys.

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**A Look Inside**

Morning Jumpstarts: Math, Grade 4

(Additional content and questions related to the specific challenges and exercises described above.)

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### Connections to the Common Core State Standards

As shown in the chart below and on page 8, the activities in this book will help you meet your specific state math standards as well as those outlined in the CCSS. These materials address the following standards for students in grade 4. For details on these standards, visit the CCSS Web site: www.corestandards.org/the-standards/.

<table>
<thead>
<tr>
<th>JS</th>
<th>Operations &amp; Algebraic Thinking</th>
<th>Number &amp; Operations in Base Ten</th>
<th>Number &amp; Operations —Fractions</th>
<th>Measurement &amp; Data</th>
<th>Geometry</th>
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Operations & Algebraic Thinking: 4.OA.1, 4.OA.2, 4.OA.3, 4.OA.4, 4.OA.5
Number & Operations in Base Ten: 4.NBT.1, 4.NBT.2, 4.NBT.3, 4.NBT.4, 4.NBT.5, 4.NBT.6
Number & Operations —Fractions: 4.NF.1, 4.NF.2, 4.NF.3, 4.NF.4, 4.NF.5, 4.NF.6, 4.NF.7
Measurement & Data: 4.MD.1, 4.MD.2, 4.MD.3, 4.MD.4, 4.MD.5, 4.MD.6, 4.MD.7
### Connections to the Common Core State Standards

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<th>Operations &amp; Algebraic Thinking</th>
<th>Number &amp; Operations in Base Ten</th>
<th>Number &amp; Operations —Fractions</th>
<th>Measurement &amp; Data</th>
<th>Geometry</th>
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<td>50</td>
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<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>
Name __________________________________________ Date ____________________

**Number Place**

Write the number that is 100 more.

202 ________ 3,155 ________ 7,187 ________

2,103 ________ 2,661 ________ 9,119 ________

Write the number that is 100 less.

323 ________ 2,379 ________ 2,296 ________

834 ________ 5,405 ________ 5,140 ________

**FAST Math**

Add. Circle the greatest sum.

4 + 7 = ________ 9 + 6 = ________ 8 + 7 = ________

3 + 9 = ________ 6 + 9 = ________ 8 + 3 = ________

7 + 9 = ________ 8 + 9 = ________ 9 + 9 = ________

**Think Tank**

Ken has fewer absences than Meg, but more than Dan. Ming has been absent more than Meg. Who has been absent the most?

____________________

Show your work in the tank.
The table shows some different sports equipment sold at a sporting goods store one week.

Use the data in the table to answer the questions.

<table>
<thead>
<tr>
<th>Item</th>
<th>Number Sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseball Glove</td>
<td>19</td>
</tr>
<tr>
<td>Soccer Ball</td>
<td>31</td>
</tr>
<tr>
<td>Tennis Racquet</td>
<td>17</td>
</tr>
<tr>
<td>Hockey Stick</td>
<td>24</td>
</tr>
<tr>
<td>Swimsuit</td>
<td>60</td>
</tr>
</tbody>
</table>

1. How many hockey sticks were sold? ________________________________
2. How many of the sports items were sold in all? ________________________________
3. Which item sold about three times as much as the baseball glove did? ________________________________

Puzzler

Count on by 11 to connect the dots.

Hint: There are six numbers not used.
Name ___________________________ Date __________________

**Number Place**

Write the place value of the underlined digit.

4,567 ___________________________ 12,280 ___________________________

9,356 ___________________________ 93,518 ___________________________

44,212 ___________________________ 82,694 ___________________________

1,849 ___________________________ 7,461 ___________________________

212,873 ___________________________ 101,605 ___________________________

**FAST Math**

Subtract. Circle any answer that is your age.

14 – 4 = ________ 16 – 9 = ________ 18 – 9 = ________

17 – 8 = ________ 18 – 5 = ________ 15 – 7 = ________

12 – 6 = ________ 18 – 10 = ________ 17 – 7 = ________

**Think Tank**

Jin has $20. She bought flowers for $3.50 and a gift for $2 more than that. She bought a card for $1.95. How much did she spend in all?

_________________________

Show your work in the tank.
Data Place

Use the circle graph about singers in the school chorus to answer the questions.

**School Chorus**

- **Sopranos**: 16
- **Tenors**: 8
- **Altos**: 12
- **Basses**: 12

1. How many singers are in the chorus? ________________

2. How many basses are in the chorus? ________________

3. Which sections of the chorus have the same number of members? __________________________

4. Which section has twice the number of members as the tenor section does? __________________________

Puzzler

A magic square is an ancient math puzzle. The Chinese first made the puzzle over 2,600 years ago.

The numbers from 1–9 appear only once each in the 9 boxes of the square. The sum of each row, column, and diagonal must be 15. Three of the numbers are already in place. Figure out which numbers go in the other boxes. Explain your solution method.

```
 6

 5

 8
```
Number Place
Write each number in standard form.
three thousand fifteen ____________________________
twenty-nine thousand four hundred thirty-seven ____________________________
six hundred forty-three thousand ____________________________
eighty-two thousand three hundred eleven ____________________________

FAST Math
Add. Circle any answer that is an odd number.

\[
\begin{array}{cccccc}
17 & 29 & 38 & 125 & 134 & 417 \\
+ 48 & + 29 & + 58 & + 345 & + 656 & + 417 \\
\end{array}
\]

Think Tank
Lisa has a package that costs $3.95 to mail. She pays with 3 dollar bills and 4 quarters. How much change should Lisa get back?
______________________
Show your work in the tank.
Use the graph about trail lengths to answer the questions.

**Trail Lengths in Miles**

<table>
<thead>
<tr>
<th>Trail</th>
<th>Number of Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creek</td>
<td>8</td>
</tr>
<tr>
<td>Waterfall</td>
<td>4</td>
</tr>
<tr>
<td>Ridge</td>
<td>9</td>
</tr>
<tr>
<td>Old Mine</td>
<td>5</td>
</tr>
</tbody>
</table>

1. Which is the longest trail? __________________________________________

2. Which two trails have a combined length of 15 miles? _________________
   _____________________________________________________________________

3. Which trail is 5 miles shorter than the Ridge Trail? ________________

**Puzzler**

A dart can earn three different values.
- A dart in the center earns 100.
- A dart in the gray ring earns 10.
- A dart in the outer ring earns 2.

**Try these challenges:**

1. What is the best score you can get with 8 darts? _______________

2. What would you earn with 5 darts in each section? _______________

3. Draw 5 red darts to make a score of 132.

4. Draw 10 blue darts to make a score of 150.
Name ___________________________________________ Date ________________________

**Number Place**

Write each number in word form.

4,319

44,159

27,008

60,006

309,254

**FAST Math**

Add. Find the sum of the greatest and least answers.

3,016 + 4,410 = ______ 140 + 807 = ______ 249 + 370 = ______

1,209 + 7,005 = ______ 4,254 + 1,709 = ______ 156 + 918 = ______

____________________ + __________________ = ____________

**Think Tank**

Alex, Ben, Cindy, and Dee are in line for a movie.
Alex is third in line.
Dee is ahead of Cindy, but behind Ben. Who is first in line?

____________________

Show your work in the tank.
Greenleaf School voted on a school mascot.

Use the graph to answer the questions.

Use the number with each pet to solve the number sentences below.

1. How many people voted in the survey? ________________________________

2. Which mascot got the fewest votes? ________________________________

3. How many more kids voted for Lion than for Bulldog? ________________

4. Suppose 10 more kids voted and gave Bear 8 votes and Lion 2 votes.
   Which animal would be the mascot? ________________________________

1. 3 + 5 = ________

2. 5 × 3 = ________

3. 8 ÷ 2 = ________

4. 10 × 7 = ________
Number Place

Label the columns on the place value chart below from Ones to Millions.
Record the number that has 2 thousands, 8 hundreds, 5 ten-thousands, 0 hundred-thousands, 4 ones, 3 millions, and 0 tens.

<p>| | | | | |</p>
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</tbody>
</table>

FAST Math

Add. Circle any answer that is an even number.

\[
\begin{array}{ccc}
1,712 & 34,128 & 314 \\
421 & 2,218 & 31,004 \\
+ 8,065 & + 5,835 & 52 \\
\end{array}
\]

Think Tank

A scientist found 84 dinosaur eggs in one location and 201 in another location. She had expected to find 300 eggs. By how much did she miss her goal?

Show your work in the tank.
Fourth graders took a survey about favorite kinds of movies.

Use the graph to answer the questions.

### Movies We Like Best

<p>| | |</p>
<table>
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<th></th>
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<tbody>
<tr>
<td>Horror</td>
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<tr>
<td>Adventure</td>
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</tr>
<tr>
<td>Comedy</td>
<td></td>
</tr>
<tr>
<td>Fantasy</td>
<td></td>
</tr>
<tr>
<td>Animated</td>
<td></td>
</tr>
</tbody>
</table>

**Key** = 10 students

1. What does the key show? ______________________________________________________

2. Which kind of movie do 15 students like best? ________________________________

3. Animated films got __________________________ more votes than horror films.

4. How many students were surveyed? __________________________________________

---

### Puzzler

Solve the number puzzle. Use only the numbers 5, 6, 7, and 8 once inside every small square, and once in every row and column.

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<td>5</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
```
Number Place

Rewrite each number as only hundreds, only tens, or only ones.

<table>
<thead>
<tr>
<th>Number</th>
<th>equals</th>
<th>Hundreds</th>
<th>or</th>
<th>Tens</th>
<th>or</th>
<th>Ones</th>
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<td>300</td>
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<td>3</td>
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<td>30</td>
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<td>60</td>
<td></td>
<td>600</td>
</tr>
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<td>1,800</td>
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<td>1,800</td>
</tr>
<tr>
<td>2,700</td>
<td></td>
<td>27</td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

FAST Math

Add. Circle the sum closest to 500,000.

43,000 + 195,000 = ___________ 56,000 + 48,000 = ___________

260,000 + 250,000 = ___________ 22,000 + 7,000 = ___________

37,000 + 540,000 = ___________ 880,000 + 55,000 = ___________

Think Tank

Use the menu. Juan orders 3 burritos, 2 burgers, 4 sodas, and 1 juice. He pays with a $20 bill. What is his change?

__________________

Show your work in the tank.
A clothing store is taking a T-shirt inventory.

Complete the table to show all of the results.

T-Shirt Inventory

<table>
<thead>
<tr>
<th>T-Shirt</th>
<th>Sizes</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S</td>
<td>M</td>
</tr>
<tr>
<td>Short Sleeve</td>
<td>27</td>
<td>35</td>
</tr>
<tr>
<td>Long Sleeve</td>
<td>36</td>
<td>21</td>
</tr>
<tr>
<td>V-Neck</td>
<td>49</td>
<td>9</td>
</tr>
<tr>
<td>Turtleneck</td>
<td>37</td>
<td>22</td>
</tr>
<tr>
<td>Sports Jersey</td>
<td>5</td>
<td>12</td>
</tr>
</tbody>
</table>

The shape below uses 5 squares and has a perimeter of 12 units.

Draw a shape that also uses 5 squares but has a perimeter of 10 units.


Name ___________________________________ Date __________________

**Number Place**

Write how many are in one million.

- hundred-thousands in one million ________________
- ten-thousands in one million ________________
- thousands in one million ________________
- hundreds in one million ________________
- tens in one million ________________

**FAST Math**

Add. Circle any answer that is an even number.

\[
\begin{array}{ccc}
1,742 & + & 35,128 & + & 60,128 \\
+ 7,065 & + & 58,235 & + & 11,234 \\
\hline
305,549 & + & 239,127 & + & 452,731 \\
+ 188,032 & + & 3,122 & + & 6,239 \\
\hline
\end{array}
\]

**Think Tank**

Lin found 17 Web sites that have photos of Venus. José found 4 of those sites and 5 others that Lin did not find. How many different Web sites did they find in all?

_____________________

Show you work in the tank.
Data Place

The table below shows results of a survey on favorite kinds of sandwiches. Some of the table is blank.

Use the clues to complete the table.

- Twelve people chose hamburger.
- Tuna got the most votes.
- Twice as many people like grilled cheese better than peanut butter.

<table>
<thead>
<tr>
<th>Sandwich</th>
<th>Tally</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HHHH</td>
<td></td>
</tr>
<tr>
<td></td>
<td>III</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>HHHH</td>
<td>11</td>
</tr>
</tbody>
</table>

Puzzler

Use the numbers in the figure to solve the problems below.

Find the sum of numbers:

- not inside the oval or triangle
  
- both inside the triangle and the oval
  
- inside the triangle only

537
Number Place

Write the number 1,000 less. Write the number 1,000 more.

_____________________ 60,000

_____________________ 900,000

_____________________ 1,000,000

FAST Math

Add. Circle the answer closest to one million.

\[
\begin{align*}
21,746 + 8,062 & = 29,808 \\
31,424 + 88,935 & = 120,359 \\
67,121 + 19,284 & = 86,405
\end{align*}
\]

\[
\begin{align*}
360,040 + 582,072 & = 942,112 \\
3,122 + 466,239 & = 470,602 \\
939,183 + 462,531 & = 1,401,714
\end{align*}
\]

Think Tank

Pete’s Pizza offers 5 toppings and 4 kinds of crust. How many different pizzas could be made using 1 topping and 1 kind of crust?

Make a list or diagram the choices in the tank.
Data Place

Draw each point on the coordinate grid. Then connect the points in order to make a closed figure.

\[(2, 1) \rightarrow (4, 3) \rightarrow (7, 3) \rightarrow (9, 1) \rightarrow (2, 1)\]

1. What figure did you make? _______________________

2. Describe the figure. ______________________________

3. Name four points you can connect to make a square. _______________________

How many line segments are there in this figure?

Explain how you counted the segments. __________________________

Puzzler

How many line segments are there in this figure?

Explain how you counted the segments. __________________________
Name __________________________________________ Date ________________________

**Number Place**

Write the number 10,000 less. Write the number 100,000 more.

<table>
<thead>
<tr>
<th>Less</th>
<th>More</th>
</tr>
</thead>
<tbody>
<tr>
<td>60,000</td>
<td>27,399</td>
</tr>
<tr>
<td>900,000</td>
<td>564,799</td>
</tr>
<tr>
<td>1,000,000</td>
<td>888,888</td>
</tr>
</tbody>
</table>

**FAST Math**

Subtract. Circle any answer whose digits add to less than 10.

<table>
<thead>
<tr>
<th>746</th>
<th>88</th>
<th>657</th>
</tr>
</thead>
<tbody>
<tr>
<td>– 332</td>
<td>– 67</td>
<td>– 204</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6,949</th>
<th>578</th>
<th>9,896</th>
</tr>
</thead>
<tbody>
<tr>
<td>– 5,822</td>
<td>– 466</td>
<td>– 4,625</td>
</tr>
</tbody>
</table>

**Think Tank**

Saul’s school is setting up chairs in the gym. Students have already set up 135 chairs. They will set up 320 in all. How many more chairs do they need to set up?

__________

Show your work in the tank.
The table shows the number of players in different sports leagues.

Use the data in the table to answer the questions.

<table>
<thead>
<tr>
<th>Team</th>
<th>Players</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseball</td>
<td>625</td>
</tr>
<tr>
<td>Soccer</td>
<td>420</td>
</tr>
<tr>
<td>Football</td>
<td>666</td>
</tr>
<tr>
<td>Hockey</td>
<td>222</td>
</tr>
<tr>
<td>Lacrosse</td>
<td>105</td>
</tr>
</tbody>
</table>

1. How many more players are in the football league than the baseball league?
   _______________________________________

2. Which league has four times as many players as the lacrosse league has?
   _______________________________________

3. Which league has one-third as many players as the football league?
   _______________________________________

**Puzzler**

Trace over the design below without lifting your pencil or retracing any lines.
Try it first with your finger.
Then use a pencil or marker.
**Number Place**

Compare. Write <, =, or >.

20,999 _____ 29,000  
15,551 _____ 15,155  
9,988 _____ 10,000  
90,404 _____ 91,777  
6,678 _____ sixty-six thousand seventy-eight  
forty-five thousand three hundred _____ 45,300

**FAST Math**

Subtract. Circle any answer whose digits add to 10.

- 7,464  
- 838  
- 657  
- 657  
- 294

- 6,345  
- 5,738  
- 9,816  
- 5,812  
- 4,266  
- 7,425

**Think Tank**

It is 139 miles from Phoenix, AZ, to Flagstaff, AZ. From there it is 79 more miles to the Grand Canyon. How far is it from Phoenix to the Grand Canyon?

____________________

Show your work in the tank.
Students were asked how many hours they spend each week using social media. The line plot shows the results.

Use the data in the line plot to answer the questions.

**Hours Spent Using Social Media**

0 1 2 3 4 5 6 7 8 9 10

1. How many students were surveyed? _____

2. What is the range of the data? _____

3. What answer came up most often? _____

4. How many students spend 5 hours each week using social media? _____

5. How many students spend less than 5 hours each week using social media? _____

**Puzzler**

Use each digit from 1–9 once only to form three addends whose sum is 999.
Name __________________________________________ Date __________________

**Number Place**

Order each set of numbers from *least* to *greatest*.

4,190  1,409  14,009 ______________________________

12,007  21,700  12,707 ______________________________

850,058  805,058  508,850 ______________________________

21,000,000  12,200,000  210,200,000 ______________________________

**FAST Math**

Subtract. Circle any answer whose digits add to 15.

9,441  8,008  657
– 3,283  – 6,337  – 278

8,119  578  9,922
– 4,822  – 499  – 4,625

**Think Tank**

Dodger Stadium in Los Angeles has 56,000 seats. The stadium in Florida where the Miami Marlins play has 36,331 seats. How many more seats are there in Dodger Stadium?

______________________________

Show your work in the tank.
Data Place

Use the data in the calendar to answer the questions.

1. Three dates in a row have a sum of 69. What are the dates? __________________________

2. Two dates in a row have a product of 132. What are the dates? __________________________

3. What is the product of dates on the 2nd and 3rd Sundays? __________________________

4. What is the quotient when you divide the date of the last Wednesday by the first Saturday? __________________________

Puzzler?

Figure out each code. Fill in the blanket.

1. $3 \times \heartsuit + \triangleleft = 11$ and $\triangleleft \times \vartriangle = 10$.

   If $\heartsuit = 3$, then $\triangleleft = \underline{\hspace{2cm}}$ and $\vartriangle = \underline{\hspace{2cm}}$.

2. $3 \times \circledast - \circledcirc = \bigstar$ and $\bigstar \times \bigbox = 300$.

   If $\bigbox = 50$, then $\bigstar = \underline{\hspace{2cm}}$ and $\circledcirc = \underline{\hspace{2cm}}$. 
Number Place

Rewrite each number as only hundreds, only tens, or only ones.

<table>
<thead>
<tr>
<th>Number</th>
<th>equals</th>
<th>Hundreds</th>
<th>or</th>
<th>Tens</th>
<th>or</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>410,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FAST Math

Subtract. Circle any answer that is greater than 50,000.

\[
\begin{align*}
74,226 & - 33,281 = 40,945 \\
8,038 & - 697 = 7,341 \\
65,721 & - 20,408 = 45,313
\end{align*}
\]

\[
\begin{align*}
69,249 & - 5,872 = 63,377 \\
5,784 & - 4,669 = 1,115 \\
90,896 & - 2,628 = 88,268
\end{align*}
\]

Think Tank

Jen is 26 years younger than her mom. Together, their ages total 50. How old is Jen?

____________

How old is her mom?

____________

Show your work in the tank.
Data Place

Students in Mantle School voted for their favorite baseball teams. The results are shown in the table.

Use the data to answer the questions.

1. Which team got 3 times as many votes as the Tigers did? ________________

2. Which team got one-fourth as many votes as the Red Sox did? ________________

3. One team got 5 times the number of votes another got. Name the teams.
   ________________

Mantle’s Favorite Teams

<table>
<thead>
<tr>
<th>Team</th>
<th>Votes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dodgers</td>
<td>84</td>
</tr>
<tr>
<td>Yankees</td>
<td>56</td>
</tr>
<tr>
<td>Red Sox</td>
<td>88</td>
</tr>
<tr>
<td>Phillies</td>
<td>36</td>
</tr>
<tr>
<td>Tigers</td>
<td>16</td>
</tr>
<tr>
<td>Marlins</td>
<td>22</td>
</tr>
<tr>
<td>Rangers</td>
<td>48</td>
</tr>
<tr>
<td>Cardinals</td>
<td>80</td>
</tr>
</tbody>
</table>

Puzzler?

Work your way through the math maze from Start to Finish. Alternate addition and subtraction sentences. Use a straight line to connect the three numbers in each sentence. The first two are already done.

START

```
24  47  71  86  14  37  22
101  59  7  105  96  11  26
12  23  89  9  93  72  66
69  5  116  37  20  36  55
81  25  56  87  73  122  27
60  75  123  45  80  44  70
8  138  35  21  17  43  117
```

FINISH
**Number Place**

Round each number to the nearest ten and hundred.

<table>
<thead>
<tr>
<th>Number</th>
<th>Nearest 10</th>
<th>Nearest 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>617</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,862</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,345</td>
<td></td>
<td></td>
</tr>
<tr>
<td>89,083</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FAST Math**

Estimate each sum by rounding.

\[
\begin{align*}
7,226 + 3,381 &= 8,938 + 797 = 68,727 + 21,008 \\
509,849 + 311,372 &= 5,724 + 4,767 = 888,056 + 32,148 \\
\end{align*}
\]

**Think Tank**

Inez has five coins that total $.60. What are the coins?

___________________________

___________________________

Show your work in the tank.
Gracie and Will went to the SpaceFest. They got a schedule of events and talks at the Convention Center.

Use the schedule to answer the questions.

1. Which talk ends just before lunch?
   __________________________________________

2. Which talk lasts for 1 hour 15 minutes?
   __________________________________________

3. Which is the shortest talk?
   __________________________________________

4. Which is the longest talk?
   __________________________________________

5. Which two talks last for the same amount of time?
   __________________________________________

### Puzzler

Each letter has a number value. Use the code to name an item that matches each of the descriptions below. Write the word and its value.

<table>
<thead>
<tr>
<th>A = 1</th>
<th>B = 2</th>
<th>C = 3</th>
<th>D = 4</th>
<th>E = 5</th>
<th>F = 6</th>
<th>G = 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>H = 8</td>
<td>I = 9</td>
<td>J = 10</td>
<td>K = 11</td>
<td>L = 12</td>
<td>M = 13</td>
<td>N = 14</td>
</tr>
<tr>
<td>O = 15</td>
<td>P = 16</td>
<td>Q = 17</td>
<td>R = 18</td>
<td>S = 19</td>
<td>T = 20</td>
<td>U = 21</td>
</tr>
<tr>
<td>V = 22</td>
<td>W = 23</td>
<td>X = 24</td>
<td>Y = 25</td>
<td>Z = 26</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Animal with a sum between 20 and 30 __________________________________________

2. Food with a sum between 50 and 75 __________________________________________

3. Shape with a sum greater than 75 __________________________________________
Number Place

Round each number to its greatest place.

1,488  
12,861  
86,001

435,456  
922  
277,005

FAST Math

Round each number to its greatest place.
Then estimate each difference.

71,826  
29,244

6,038  
578,334

668,721  
800,896

– 23,241  
– 4,892

– 497  
– 416,009

– 209,508  
– 27,528

Think Tank

Anna’s room is a rectangle. Its length is 15 feet and its width is 4 yards. What is the perimeter of the room?

_____________________

Show your work in the tank.
LaTanya’s family runs a small jewelry kiosk at the mall. The list shows the prices of some of the items they sell.

Use the price list to answer the questions.

1. How much does it cost to buy 10 watches? ________________

2. How much more than a ring does a necklace cost? ________________

3. Which items differ in price by about $40? ________________________

4. Lisa bought a bracelet and two watches. How much did she spend?
   ________________

5. Clark spent $70.44. Which 2 items did he buy? ________________________

Puzzler

Draw each point on the coordinate grid. Then connect them in order.

(2, 4) → (6, 4) → (8, 2) → (4, 2) → (2, 4)

What kind of polygon did you make? ________________________________
Name ___________________________________ Date ____________________

**Number Place**

Round to the place of the underlined digit.

- 931,488 ____________ 435,465 ____________
- 192,866 ____________ 922,007 ____________
- 806,001 ____________ 237,400 ____________

**FAST Math**

Add or subtract.

\[
\begin{align*}
\$8.26 & \quad + \quad \$3.41 & \quad = \quad $11.67 \\
\$87.06 & \quad + \quad \$35.48 & \quad = \quad $122.54 \\
\$912.44 & \quad - \quad \$48.92 & \quad = \quad $863.52 \\
\$783.04 & \quad - \quad \$160.09 & \quad = \quad $622.95 \\
\$218.26 & \quad + \quad \$35.41 & \quad = \quad $253.67
\end{align*}
\]

**Think Tank**

Kim’s backyard is 9 meters wide. It is twice as long as it is wide. What is the perimeter of the yard?

______________

Show your work in the tank.
**Data Place**

What did your classmates have for breakfast today?

Pick 4 breakfast items to count and tally. Then graph the results.

<table>
<thead>
<tr>
<th>Breakfast Item</th>
<th>Tally</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

What was hardest about this activity?

________________________________________________________________________________

---

**Puzzler**

Each problem has some missing digits.

Use number sense to fill them in correctly. Each of the digits 0–9 is missing only once.

\[
\begin{align*}
26 & \phantom{0} \phantom{0} + 11 & \phantom{0} \phantom{0} + 62 & \phantom{0} \phantom{0} + 41 & \phantom{0} \phantom{0} + 84 \\
& \phantom{0} \phantom{0} - 38 & \phantom{0} \phantom{0} + 526 & \phantom{0} \phantom{0} - 37 & \phantom{0} \phantom{0} + 187 & \phantom{0} \phantom{0} - 83 \\
& 127 & \phantom{0} \phantom{0} 65 & \phantom{0} \phantom{0} 345 & \phantom{0} \phantom{0} 63 & \phantom{0} \phantom{0} 59
\end{align*}
\]
Number Place

Write each number in expanded form.

2,382

40,306

225,960

600,010

FAST Math

Estimate each sum or difference.

$82.26 + $29.45 = $42.18 - $6.89 = $787.06 + $395.44

$622.42 - $278.92 = $783.04 - $160.09 = $218.26 + $488.16

Think Tank

Teisha has 7 coins that add to $1. Only one of the coins is a dime. What are the coins?

___________________________

___________________________

___________________________

Show your work in the tank.
Make a Venn diagram with numbers between 0 and 50. Write multiples of 3 in one region. Write multiples of 5 in the other region. Write multiples of both 3 and 5 in the overlapping region.

Multiples of 3 only
3 and 5
Multiples of 5 only

Fill in this design using 4 different colors. You can repeat colors—but not where sections touch.
Name __________________________________ Date _______________________

**Number Place**

Use all the numbers on the cards to form:

- the greatest number _______________________
- the least number _______________________
- the greatest even number _______________________
- the greatest odd number _______________________

**FAST Math**

Find each product as quickly as you can.

\[
egin{align*}
3 \times 9 &= \underline{27} \quad 5 \times 6 &= \underline{30} \quad 7 \times 4 &= \underline{28} \\
5 \times 8 &= \underline{40} \quad 4 \times 0 &= \underline{0} \quad 4 \times 9 &= \underline{36} \\
6 \times 7 &= \underline{42} \quad 1 \times 3 &= \underline{3} \quad 7 \times 6 &= \underline{42}
\end{align*}
\]

**Think Tank**

What is the perimeter of Tran’s apartment?

_________________________

Show your work in the tank.
Use the map of Veggie County to answer the questions.

All distances on the map are given in kilometers.

1. How far is it from Carrot to Bean?
   __________________________

2. What is the shortest route from Eggplant to Squash?
   _______________________________________________________
   How long is it? ____________________

3. Which two towns are 59 km apart one way and 77 km apart the other way?
   ____________________________________________________________________

**Puzzler**

Use the numbers in the figure to solve the problems below.

Find the product of numbers:

- inside the square only
  _______________

- inside the triangle and circle
  _______________

- inside the circle and square
  _______________
Name _______________________________ Date __________________

**Number Place**

Read the clues to figure out the number.

- I am a 5-digit number.
- To the nearest ten-thousand, I round to 30,000.
- To the nearest thousand, I round to 27,000.
- To the nearest hundred, I round to 27,200.
- Four of my digits are 2s.

What number am I? ________________

**FAST Math**

Find each product as quickly as you can.

\[
\begin{align*}
8 \times 9 &= \underline{72} & 5 \times 9 &= \underline{45} & 7 \times 7 &= \underline{49} \\
7 \times 8 &= \underline{56} & 6 \times 0 &= \underline{0} & 9 \times 7 &= \underline{63} \\
8 \times 1 &= \underline{8} & 9 \times 9 &= \underline{81} & 8 \times 6 &= \underline{48}
\end{align*}
\]

**Think Tank**

Together, Iris and Ivan weigh 120 pounds. Iris weighs 10 pounds less than Ivan. How much does each child weigh?

______________________

______________________

Show your work in the tank.
**Data Place**

Use the graph to answer the questions about different pets students have.

1. How many students have either a bird or a dog? ________________

2. What kind of pet do $\frac{1}{4}$ of the students have? ________________

3. How many times as many students have dogs as have fish? ________________

4. Why is the dog part of the graph the largest? __________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

**Puzzler**

How many rectangles are there in this figure?

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Describe how you organized your thinking.
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

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Number Place

Round each money amount to the nearest dollar and ten dollars.

<table>
<thead>
<tr>
<th>Amount</th>
<th>Nearest $1</th>
<th>Nearest $10</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6.17</td>
<td>$6</td>
<td>$10</td>
</tr>
<tr>
<td>$28.62</td>
<td>$29</td>
<td>$30</td>
</tr>
<tr>
<td>$843.45</td>
<td>$843</td>
<td>$840</td>
</tr>
</tbody>
</table>

FAST Math

Break apart the factor in the rectangle to find the product.

\[
\begin{array}{c}
7 \times 8 = (\__ \times 8) + (2 \times 8) \\
6 \times 7 = (5 \times 7) + (\__ \times 7)
\end{array}
\]

\[
\begin{array}{c}
= \__ + 16 \\
= 56
\end{array}
\]

\[
\begin{array}{c}
6 \times 9 = (\__ \times 9) + (\__ \times 9) \\
7 \times 9 = (\__ \times 9) + (\__ \times 9)
\end{array}
\]

\[
\begin{array}{c}
= \__ + \__ \\
= \__ + \__
\end{array}
\]

Think Tank

Ari left the airport at 11:45 A.M. He drove for 55 minutes to get home. What time did he arrive?

Show your work in the tank.
Data Place

Use the table about stadium seats to answer the questions.

1. How many seats are in the stadium?
   ___________________________________

2. How many more seats are in the upper deck than in the loge?
   _________________________

3. What is the cost of 4 tickets in the mezzanine?
   _________________________

4. Cal bought 3 tickets for $105. Where are his seats?
   ______________________________

5. Mia bought 2 tickets in one section and 2 in another. She spent $160 in all.
   Where are her seats? ________________________________

Seats in a Stadium

<table>
<thead>
<tr>
<th>Location</th>
<th>Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Level</td>
<td>8,000</td>
<td>$55</td>
</tr>
<tr>
<td>Mezzanine</td>
<td>5,600</td>
<td>$45</td>
</tr>
<tr>
<td>Loge</td>
<td>18,000</td>
<td>$35</td>
</tr>
<tr>
<td>Upper Deck</td>
<td>30,000</td>
<td>$25</td>
</tr>
<tr>
<td>Bleachers</td>
<td>800</td>
<td>$10</td>
</tr>
</tbody>
</table>

Puzzler

Begin at the ★.
Skip count by 9s to connect the dots.
Number Place

Round each money amount to the nearest $100 and $1,000.

<table>
<thead>
<tr>
<th>Amount</th>
<th>Nearest $100</th>
<th>Nearest $1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>$695.32</td>
<td>$700</td>
<td>$1,000</td>
</tr>
<tr>
<td>$1,230.55</td>
<td>$1,200</td>
<td>$1,000</td>
</tr>
<tr>
<td>$6,843.45</td>
<td>$6,800</td>
<td>$7,000</td>
</tr>
</tbody>
</table>

FAST Math

Multiply.

3 × 40 = ___ 4 × 50 = ___ 3 × 80 = ___ 6 × 30 = ___
5 × 70 = ___ 3 × 400 = ___ 5 × 600 = ___ 4 × 500 = ___
7 × 300 = ___ 8 × 600 = ___ 2 × 900 = ___ 6 × 700 = ___

Think Tank

What is the product of all numbers on a telephone key pad?

_________

Explain how you know.

________________
________________
________________
Use the graph about dog food in stock at Pam’s Pets during a 5-week period to answer the questions.

### Dog Food in Stock at Pam’s Pets

<table>
<thead>
<tr>
<th>Pounds</th>
<th>100</th>
<th>90</th>
<th>80</th>
<th>70</th>
<th>60</th>
<th>50</th>
<th>40</th>
<th>30</th>
<th>20</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>2</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4</td>
<td></td>
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<td>5</td>
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</tr>
</tbody>
</table>

1. How many pounds of dog food did the store have in the first week? ___________  
   In the third week? ________________

2. How much less dog food was in stock in the fourth week than in the second week?  
   ____________________

3. Describe the change in the amount of dog food from weeks 1 to 5.  
   _______________________________________________________________________

### Puzzler

You will water Ms. Gold’s plants each day for 10 days. She says, “I can pay you $10 a day.  
Or, I can pay you 25¢ the first day, and then double the amount each day after that.”

**Which plan should you take? Finish the table to help you decide.**

<table>
<thead>
<tr>
<th>Day</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pay</td>
<td>$.25</td>
<td>$.50</td>
<td>$1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. How much would you earn at $10 a day? ________________

2. How much would you earn with the doubling plan? ________________
Number Place

Rewrite each money amount. Use $ and .

four dollars and sixty cents ______________________

twenty-seven dollars and thirty-four cents ______________________

one hundred ninety dollars and two cents ______________________

two thousand fifteen dollars and fifty cents ______________________

FAST Math

Multiply.

\[
\begin{align*}
8 \times 6,000 &= \underline{48,000} & 6 \times 4,000 &= \underline{24,000} & 3 \times 8,000 &= \underline{24,000} \\
4 \times 7,000 &= \underline{28,000} & 5 \times 3,000 &= \underline{15,000} & 8 \times 9,000 &= \underline{72,000} \\
9 \times 2,000 &= \underline{18,000} & 7 \times 8,000 &= \underline{56,000} & 8 \times 6,000 &= \underline{48,000} \\
\end{align*}
\]

Think Tank

Rosa saw ducks and cows at a farm. In all, she counted 9 animals and 28 legs. How many ducks and how many cows did she see?

_______________________

_______________________

Show your work in the tank.
The line plot shows the number of hours students said they spent reading each week.

Use the data in the line plot to answer the questions.

**Hours Spent Reading**

<p>| | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

1. How many students were surveyed? ____________________

2. What is the range of the data? ____________________

3. What is the mode of the data? ____________________

4. How many students say they read for 5 hours each week? ____________________

5. An outlier is a value that “lies outside” (or away from) the rest of the data.
   Which number of hours is an outlier? ____________________

---

**Puzzler**

Complete the category chart. The letters above each column tell the first letter for each word. Three are done for you.

<table>
<thead>
<tr>
<th>Category</th>
<th>R</th>
<th>O</th>
<th>P</th>
<th>E</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number Words</td>
<td>Roman</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measure Words</td>
<td></td>
<td></td>
<td></td>
<td>Equivalent</td>
<td></td>
</tr>
<tr>
<td>Geometry Words</td>
<td></td>
<td></td>
<td></td>
<td>Polygon</td>
<td></td>
</tr>
</tbody>
</table>

---

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Name ___________________________________________ Date ______________________

**Number Place**

Compare. Write <, =, or >.

200,999 _____ 209,000  
90,988 _____ 100,000  
60,778 _____ sixty thousand seven hundred eighty-five

150,551 _____ 150,155  
908,444 _____ 901,888  
four hundred fifty thousand _____ 405,000

**FAST Math**

Round to the nearest 10 or 100. Then estimate the product.

3 × 68 = __________  
4 × 771 = __________  
7 × 27 = __________  
6 × 41 = __________  
5 × 380 = __________  
9 × 637 = __________  
2 × 807 = __________  
8 × 915 = __________  
4 × 662 = __________

**Think Tank**

Macaws can live to be about 64 years old. Hamsters live for about 4 years. About how many times longer than hamsters do macaws live?

____________________

Show your work in the tank.
The graph compares television sales at Ed’s Electronics Store. Use the graph to answer the questions.

**Comparing Television Sales**

<table>
<thead>
<tr>
<th>Television Size</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>32-inch</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>40-inch</td>
<td>250</td>
<td>350</td>
</tr>
<tr>
<td>52-inch</td>
<td>300</td>
<td>320</td>
</tr>
<tr>
<td>60-inch</td>
<td>200</td>
<td>150</td>
</tr>
</tbody>
</table>

1. Which size TV sold best in 2011? ________________
2. Which size TV sold worst in 2012? ________________
3. Which size TV had the greatest sales growth from 2011 to 2012? ________________
4. How many more TVs sold in 2012 than in 2011? ________________

**Puzzler**

Use the clues below to find out the home of the most famous groundhog in America.

____  ____  ____  ____  ____  ____  ____  ____  ____  ____ , PA

The second and sixth letters are u. The seventh letter is t.
The fourth letter is x. The eleventh letter is e.
The third and tenth letters are n. The ninth letter is w.
The eighth letter is a. The first letter is P.
The twelfth letter is y. The fifth letter is s.
Number Place

Compare. Write <, =, or >.

$20,000 _____ $200,000
$150,500 _____ $150,150
$998,008 _____ $998,800
$90,999 _____ $900,000
$667,000 _____ six hundred seventy thousand dollars
four hundred five thousand dollars _____ $405,000

FAST Math

Round to the greatest place. Then estimate the product.

5 × 658 = __________ 7 × 431 = __________ 2 × 8,107 = __________
4 × 791 = __________ 5 × 3,780 = __________ 3 × 9,150 = __________
6 × 279 = __________ 9 × 527 = __________ 4 × 6,262 = __________

Think Tank

There are 25 players on each Major League baseball team. There are 30 teams in all. How many players are in the Major Leagues?

Show your work in the tank.
Carlos rolled a 1–6 number cube 50 times. He recorded his results in a tally table.

Complete the bar graph to display the results.

Results for 50 Rolls

<table>
<thead>
<tr>
<th>Number Rolled</th>
<th>How Many</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>🔄 🔄 🔄 1</td>
</tr>
<tr>
<td>2</td>
<td>🔄 🔄 🔄 🔄</td>
</tr>
<tr>
<td>3</td>
<td>🔄 🔄 🔄 🔄 🔄 🔄 11</td>
</tr>
<tr>
<td>4</td>
<td>🔄 🔄 🔄 🔄 🔄 🔄 🔄 🔄 🔄 🔄 🔄 🔄 11</td>
</tr>
<tr>
<td>5</td>
<td>🔄 🔄 🔄 🔄 🔄 🔄 11</td>
</tr>
<tr>
<td>6</td>
<td>🔄 🔄 11</td>
</tr>
</tbody>
</table>

1. Which two numbers came up the same number of times? __________
2. Which number came up the most often? __________

Puzzler

Each number has a different shape around it in the tic-tac-toe grid. For instance, [ ] stands for 8. Do you see why?

Use this code to solve the problems.

1. [ ] [ ] × [ ] = _________
2. [ ] [ ] × [ ] = _________
3. [ ] [ ] [ ] × [ ] = _________
4. [ ] [ ] [ ] × [ ] = _________
Name ___________________________________________ Date ____________________

**Number Place**

Write any number that belongs between.

2,140 < _______ < 2,150  
51,400 > _______ > 51,395  
7,065 < _______ < 7,100  
60,001 > _______ > 59,998  
89,000 < _______ < 89,003  
30,078 > _______ > 30,000

**FAST Math**

Find each product. Circle the two products that are the same.

5 × 56 = _______  
4 × 91 = _______  
4 × 19 = _______  
6 × 702 = _______  
6 × 316 = _______  
8 × 68 = _______  
3 × 922 = _______  
7 × 52 = _______  
7 × 751 = _______

**Think Tank**

Forty-four runners from Thorpe School are going to a track meet. The vans that take them hold 8 students each. How many vans do the runners need?

________________

Show your work in the tank.
The Fish Tank is having a sale on some popular items.  

Use the price list to answer the questions below.

1. How much more than the book does the tank cost? ________________

2. Jae spent $29.73 on three items. What are they? ______________________
   ______________________

3. Which costs more: 2 of the 20-gallon tanks or 6 sunken ships? ________________
   ______________________
   How much more? __________

---

## Puzzler

In each shape, cross out the fraction or mixed number that does not belong. Then, write one that does belong on the line beneath the shape.

1. ______________________

2. ______________________
Number Place

Write the next 2 numbers in each pattern.

33 303 3,003 ___________ ___________
7,001 8,001 9,001 ___________ ___________
204 2,005 20,006 ___________ ___________
1,000,009 100,008 10,007 ___________ ___________

FAST Math

Multiply. Circle the two products that have a sum of 925.

5 × 36 = ___________ 4 × 98 = ___________ 4 × 397 = ___________
6 × 752 = ___________ 6 × 816 = ___________ 8 × 78 = ___________
3 × 622 = ___________ 7 × 43 = ___________ 5 × 671 = ___________

Think Tank

Leon ordered two items from the catalog. His change from a $20 bill was $6.10. Which two items did he order?

___________________
___________________

Show your work in the tank.
Data Place

Identify the coordinates for each ordered pair that forms the square. Write them on the line below each grid.

Square 1

Square 2

Square 3

___________________

___________________

___________________

Compare the coordinates of the first and third squares.

What pattern do you notice? ____________________________________________

Puzzler

The triangles have 9 boxes. Use the numbers 1–9 once in each triangle. Write a number in each box so that the sum on each side of the triangle is the same.

1. Make the least possible sum.  2. Make the greatest possible sum.
Name ___________________________________________ Date ______________________

**Number Place**

Write the correct number from the box.

- It is the greatest number. ____________________________

- They are less than 8,000.
  __________________________________________________

- They are greater than 80,000
  __________________________________________________

- Circle the leftover numbers.

<table>
<thead>
<tr>
<th>3,811</th>
<th>9,005</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,500</td>
<td>8,005</td>
</tr>
<tr>
<td>20,530</td>
<td>101,005</td>
</tr>
<tr>
<td>100,500</td>
<td>85,875</td>
</tr>
<tr>
<td>4,981</td>
<td></td>
</tr>
</tbody>
</table>

**FAST Math**

Find each product. Circle any product that rounds to $3.$

\[
\begin{align*}
8 \times $.45 &= \underline{\hspace{2cm}} \\
7 \times $.40 &= \underline{\hspace{2cm}} \\
1 \times $7.00 &= \underline{\hspace{2cm}} \\
6 \times $2.23 &= \underline{\hspace{2cm}} \\
4 \times $5.20 &= \underline{\hspace{2cm}} \\
2 \times $8.55 &= \underline{\hspace{2cm}} \\
9 \times $3.39 &= \underline{\hspace{2cm}} \\
3 \times $.67 &= \underline{\hspace{2cm}} \\
5 \times $9.82 &= \underline{\hspace{2cm}} \\
\end{align*}
\]

**Think Tank**

Brian’s team scored 26 two-point baskets and 7 three-point baskets. How many points did his team score?

____________________

Show your work in the tank.
Data Place

Forty-eight students took a homework survey. The table shows the results. But some of the table is blank.

Use the clues to complete the table.

- Four times as many students prefer working on the floor to working on the bed.
- Seven times as many students prefer working at a table to working on the bed.

<table>
<thead>
<tr>
<th>Best Homework Spot</th>
<th>Tally</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Floor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Puzzler

Tetrominoes are figures made of 4 squares joined flush along 1 or more sides. Two have been done as examples.

Draw four other tetrominoes on the grid.
Name ___________________________________________ Date _______________________

Number Place

Write the decimal for each part.

1. __________ 2. __________

FAST Math

Find each quotient as quickly as you can.

27 ÷ 3 = _______ 18 ÷ 2 = _______ 32 ÷ 4 = _______
30 ÷ 3 = _______ 24 ÷ 4 = _______ 0 ÷ 5 = _______
40 ÷ 5 = _______ 30 ÷ 3 = _______ 36 ÷ 4 = _______

Think Tank

Rosa’s teacher ordered 6 pizzas for a party. Each cost $12.75. She shared the cost equally with 4 other teachers. How much did each teacher pay?

_________________

Show your work in the tank.
Data Place

Sue’s Sign Shop is having a sale. The table shows the cost of placing words on a sign. You pay by the letter. Prices vary by letter heights.

Use the table to answer the questions.

1. What would it cost for a sign with your first and last names in 3-inch letters? ______________

2. What would it cost for a sign with the name of your school in 12-inch letters? ______________

3. Alex got a sign that says VOTE FOR ME. He spent $24.75. What size letters did he get? ______________

<table>
<thead>
<tr>
<th>Letter Height</th>
<th>Price per Letter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 inch</td>
<td>$.75</td>
</tr>
<tr>
<td>3 inches</td>
<td>$1.50</td>
</tr>
<tr>
<td>6 inches</td>
<td>$2.75</td>
</tr>
<tr>
<td>9 inches</td>
<td>$4.00</td>
</tr>
<tr>
<td>12 inches</td>
<td>$5.50</td>
</tr>
</tbody>
</table>

Puzzler

Choose one number from each box to find each product.

1. _______ × _______ = 2,235
   A   B

2. _______ × _______ = 1,264
   A   B
Name __________________________________________  Date __________________

**Number Place**

Write the decimal for each part.

```
<p>| | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<td></td>
</tr>
</tbody>
</table>
```

**FAST Math**

Find each quotient as quickly as you can.

\[
\begin{align*}
24 \div 6 &= \underline{4} & 56 \div 7 &= \underline{8} & 36 \div 6 &= \underline{6} \\
48 \div 6 &= \underline{8} & 49 \div 7 &= \underline{7} & 0 \div 6 &= \underline{0} \\
42 \div 7 &= \underline{6} & 42 \div 6 &= \underline{7} & 63 \div 7 &= \underline{9}
\end{align*}
\]

**Think Tank**

The average mass of a cat’s brain is 3.3 grams. That is 0.8 grams more than the average rabbit brain. What is the mass of the average rabbit brain?

________________

Show your work in the tank.
Nita runs a kennel. The table shows the kinds of dogs at the kennel today.

<table>
<thead>
<tr>
<th>Dog Breed</th>
<th>Boxer</th>
<th>Collie</th>
<th>Hound</th>
<th>Mutt</th>
<th>Terrier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>28</td>
<td>32</td>
<td>30</td>
<td>48</td>
<td>22</td>
</tr>
</tbody>
</table>

Make a pictograph of the data. Give it a title and a key.
Use 🐶 to stand for 4 dogs.

Key 🐶 = ___ dogs

**Puzzler**

Use the fraction code to spell two different math words.
Write the letters in the order they appear in the clue.

The last $\frac{2}{5}$ of triad
The last $\frac{1}{3}$ of parade
The middle $\frac{1}{3}$ of wander
The last $\frac{1}{5}$ of catch
The last $\frac{1}{2}$ of apex
The first $\frac{1}{3}$ of agreed
The second $\frac{2}{3}$ of son

Make up your own fraction code to spell your last name. Use another sheet of paper.
Name __________________________________________ Date ___________________

**Number Place**

Circle each number that has a 4 in the tenths place.

4.5 7.4 23.04 40.43

Circle each number that has a 4 in the hundredths place.

4.05 7.14 24.04 30.47

Circle each number that does not have a 4 in the tenths or hundredths place.

4.01 7.14 84.04 40.32

**FAST Math**

Find each quotient as quickly as you can.

32 ÷ 8 = ________ 36 ÷ 9 = ________ 40 ÷ 10 = ________
63 ÷ 9 = ________ 45 ÷ 9 = ________ 64 ÷ 8 = ________
60 ÷ 10 = ________ 48 ÷ 8 = ________ 56 ÷ 8 = ________

**Think Tank**

Jada bought a 64-ounce container of apple juice. How many full 6-ounce glasses of juice can she serve her friends?

____________________

Show your work in the tank.
Data Place

Students named the continent they most want to visit.

Use the graph to answer the questions.

Continents to Visit

<table>
<thead>
<tr>
<th>Continent</th>
<th>Votes</th>
</tr>
</thead>
<tbody>
<tr>
<td>South America</td>
<td>12</td>
</tr>
<tr>
<td>Europe</td>
<td>16</td>
</tr>
<tr>
<td>Asia</td>
<td>8</td>
</tr>
<tr>
<td>Africa</td>
<td>20</td>
</tr>
<tr>
<td>Australia</td>
<td>4</td>
</tr>
</tbody>
</table>

1. How many students voted? __________________________

2. Which continent got more than twice the number of votes South America did? __________________________

3. How many more students chose Africa than Europe? __________________________

Puzzler?

Draw a picture to help you solve this money puzzle.

Matsu put 12 pennies in a row on his desk.
Then he swapped every 2nd penny for a quarter.
Next, he swapped every 3rd coin for a dime.
Finally, he swapped every 4th coin for a nickel.

1. How much money is on the desk now? __________________________

2. How much more is it than Matsu started with? __________________________
Name ___________________________________  Date ____________________

**Number Place**

Write each decimal in number form.

three tenths ____________  seven hundredths ____________
sixty-two hundredths ____________  sixteen hundredths ____________
nine tenths ____________  one hundredth ____________

**FAST Math**

Find the missing numbers.

If 3 × 9 = 27, then 3 × 90 = ____________.
If 6 × 8 = ____________, then 6 × 80 = ____________.
If 7 × 7 = ____________, then 7 × 70 = ____________ and 7 × 700 = ____________.
If 35 ÷ 5 = 7, then 350 ÷ 5 = ____________.
If 54 ÷ 9 = ____________, then 540 ÷ 9 = ____________.
If 32 ÷ 4 = ____________, then 320 ÷ 4 = ____________ and 3,200 ÷ 4 = ____________.

**Think Tank**

An oak tree is 5.5 meters tall. An elm tree is 1.1 meters shorter. How tall is the elm tree?

__________________

Show your work in the tank.
Use the graph about building heights to answer the questions.

**Building Heights (in stories)**

1. Which is the tallest building?

2. Which building is about twice the height of First Hawaiian Center?

3. The Empire State Building has 102 stories. Which building is about a third its height?

---

**Puzzler?**

This coordinate grid has 20 letters on it.

Write the ordered pairs to spell a word for each clue.

A flower:

A kitchen appliance:

A fruit:
Name ______________________________________ Date ____________________

**Number Place**

Compare. Write <, =, or >.

2.5 ____ 0.5
3.7 ____ 7.3
60.7 ____ sixty-seven

1.5 ____ 1.8
39.4 ____ 39
9.6 ____ nine and six tenths

**FAST Math**

Find the missing numbers in the fact family patterns.

If 3 × 50 = 150, then 150 ÷ 3 = __________.

If 6 × 70 = 420, then 420 ÷ 6 = __________.

If 7 × 40 = __________, then __________ ÷ 7 = 40.

If 320 ÷ 8 = 40, then 8 × 40 = __________.

If 540 ÷ 9 = 60, then 9 × 60 = __________.

If 400 ÷ 4 = __________, then 4 × 100 = __________.

**Think Tank**

The first modern Olympics was held in 1896. The winning time in the 100-meter dash was 12 seconds. In 2008 the winning time was 9.69 seconds. How much faster was the 2008 winning time?

_______________________

Show your work in the tank.
The line plot shows students’ science test scores. Use the data to answer the questions.

**Science Test Scores**

1. How many students took the test? _______________________
2. What is the range of the data? _______________________
3. What is the mode of the data? _______________________
4. How many students scored lower than 80? _______________________
5. Which score is an outlier? _______________________
   How do you know? ________________________________________

**Puzzler?**

Write the numbers 1,000, 2,000, 3,000, 4,000, and 5,000 once each in the five boxes. Make the sum of the three numbers in each direction total 10,000.

How did you solve the problem?

_____________________________________________________________________

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_____________________________________________________________________
Number Place

Order the decimals from least to greatest.

1.6  1.2  1.9  1.5

6.4  6.7  6.8  6.1

Order the decimals from greatest to least.

10.1  10.9  0.4  10.6

12.7  12.3  11.9  12.8

FAST Math

Use number sense to estimate each quotient.

37 ÷ 8 = ________  34 ÷ 9 = ________  429 ÷ 7 = ________

624 ÷ 9 = ________  155 ÷ 4 = ________  650 ÷ 8 = ________

29 ÷ 4 = ________  428 ÷ 6 = ________  493 ÷ 5 = ________

Think Tank

How many seconds are there in 2 hours?

___________

Show your work in the tank.
Data Place

Students counted the number of cousins they have.

Finish the table. Then answer the questions below.

<table>
<thead>
<tr>
<th>Range</th>
<th>Tallies</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–4</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>5–8</td>
<td></td>
<td>42</td>
</tr>
<tr>
<td>9–12</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>13–16</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>17 or more</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

1. Which range has three times as many tallies as 0–4? _________________

2. Which range has half as many tallies as 5–8? _________________

3. Which range would include the number of cousins you have? _________________

Puzzler?

Half a design appears on one side of a line of symmetry. Complete the rest of the design. Keep it symmetric.
Name ___________________________________________ Date ______________________

**Number Place**

Compare. Write <, =, or >.

2.05 ______ 0.05  
3.71 ______ 3.70  
6.47 ______ sixty-four and seventy hundredths

1.35 ______ 1.38  
49.60 ______ 49.06  
three and eighteen hundredths ______ 3.18

**FAST Math**

Use number sense to estimate each quotient.

\[
\begin{align*}
389 \div 8 &= \underline{49} \\
314 \div 6 &= \underline{52} \\
4,166 \div 7 &= \underline{602} \\
173 \div 3 &= \underline{58} \\
3,572 \div 4 &= \underline{893} \\
3,177 \div 8 &= \underline{397} \\
6,341 \div 9 &= \underline{704} \\
2,439 \div 6 &= \underline{406} \\
3,583 \div 5 &= \underline{716}
\end{align*}
\]

**Think Tank**

A golfer hit a 250-yard shot and then a 130-yard shot to the hole. How many feet did she hit the ball, in total?

______________________

Show your work in the tank.
The table provides data on school populations.

Display the data in a bar graph. Give your graph a title and add the labels.

<table>
<thead>
<tr>
<th>School</th>
<th>Populations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chavez</td>
<td>976</td>
</tr>
<tr>
<td>McAuliffe</td>
<td>723</td>
</tr>
<tr>
<td>Rita Dove</td>
<td>1,020</td>
</tr>
<tr>
<td>Whitman</td>
<td>897</td>
</tr>
</tbody>
</table>

Write the school names in population order from largest to smallest.

Try this toothpick challenge.
Rearrange the 12 toothpicks to make 3 squares that are congruent (the same size and shape).
Name ____________________________ Date ______________

**Number Place**

Order the decimals from *least* to *greatest*.

1.06  1.02  1.92  1.05  
6.43  6.73  4.47  6.14  

Order the decimals from *greatest* to *least*.

10.01  10.91  9.99  10.06  
12.37  11.23  10.16  12.23  

**FAST Math**

Find each quotient.

72 ÷ 3 = _______  48 ÷ 2 = _______  64 ÷ 4 = _______  
98 ÷ 7 = _______  114 ÷ 3 = _______  126 ÷ 6 = _______  
255 ÷ 5 = _______  176 ÷ 8 = _______  288 ÷ 9 = _______  

**Think Tank**

A punch recipe calls for 3 quarts of cranberry juice, 1 quart of orange juice, and 1 gallon of club soda. How many cups of cranberry juice does the recipe need?

_______________________

Show your work in the tank.
The table shows the estimated populations of America’s five largest cities, as of April 2010.

<table>
<thead>
<tr>
<th>City</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York, NY</td>
<td>8,175,133</td>
</tr>
<tr>
<td>Los Angeles, CA</td>
<td>3,792,621</td>
</tr>
<tr>
<td>Chicago, IL</td>
<td>2,695,598</td>
</tr>
<tr>
<td>Houston, TX</td>
<td>2,099,451</td>
</tr>
<tr>
<td>Philadelphia, PA</td>
<td>1,526,006</td>
</tr>
</tbody>
</table>

Use the table to answer the questions.

1. Which city’s population rounds to 3,000,000?

2. Which two cities differ in population by about 1,700,000?

3. Which city has about 3 times as many people as Chicago?

4. Suppose Philadelphia’s population increases by about 500,000. About how many people would live there?

Puzzler

Color the design.
Use the key.

<table>
<thead>
<tr>
<th>If the decimal is</th>
<th>Color the space</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 1.0</td>
<td>blue</td>
</tr>
<tr>
<td>= 0.5</td>
<td>purple</td>
</tr>
<tr>
<td>&lt; 0.5</td>
<td>green</td>
</tr>
</tbody>
</table>

0.06
0.25
0.50
1.31
1.07
2.35
0.4
0.32
2.4
0.50
0.16
0.4
0.2
2.59
0.07
1.98
0.41
**Number Place**

Finish labeling the number line to show equivalent decimals and fractions.

0.2 0.5 0.9

**FAST Math**

Find each quotient.

\[
\begin{align*}
9 \div 681 &= 0.75 \\
5 \div 265 &= 0.2 \\
8 \div 352 &= 0.02 \\
9 \div 301 &= 0.03 \\
\end{align*}
\]

\[
\begin{align*}
4 \div 74 &= 0.05 \\
2 \div 29 &= 0.07 \\
6 \div 124 &= 0.05 \\
3 \div 418 &= 0.007 \\
\end{align*}
\]

**Think Tank**

Luz played soccer for 2 \(\frac{3}{4}\) hours on Monday and for 1 \(\frac{1}{4}\) hours on Tuesday. How much longer did Luz play on Monday?

Show your work in the tank.
Mr. Bunsen’s students are working on science projects. He asks them to describe how far along they are. “Are you closest to \(\frac{1}{4}\) done, \(\frac{1}{2}\) done, \(\frac{3}{4}\) done, or all done?” The line plot shows their answers.

Use the data to answer the questions.

1. How many students are in the class?
   _______________________

2. What is the range of the data?
   _______________________

3. What is the answer that came up most often?
   _______________________

4. How many students are at least half done? _______________________
   What fraction of the class is that? _______________________

Puzzler

Greene Farm has a total of 36 goats and geese. Farmer Greene reports that there are 100 legs in all.

How many of each animal are on the farm?

_______________ geese

_______________ goats
Number Place

Make a 4-digit decimal place value chart from tens to hundredths. Label the columns. Then write the following decimals in number form in your chart:

- fourteen and fifty-nine hundredths
- twenty and six hundredths

---

FAST Math

Find each quotient.

\[
\begin{align*}
720 \div 4 &= \underline{\phantom{00}} \\
624 \div 3 &= \underline{\phantom{00}} \\
2,900 \div 2 &= \underline{\phantom{00}} \\
601 \div 7 &= \underline{\phantom{00}} \\
1,024 \div 6 &= \underline{\phantom{00}} \\
3,262 \div 5 &= \underline{\phantom{00}}
\end{align*}
\]

Think Tank

Krin danced for 30 minutes every morning and for 45 minutes every afternoon for 5 days. How many hours and minutes did he dance in all?

\[\underline{\phantom{00}} \] Show your work in the tank.
Data Place

Use the data in the calendar to answer the questions.

1. Four dates in a row have a sum of 74. What are the dates?

_____________________________

2. Two dates in a row have a product of 240. What are the dates?

_____________________________

3. Which two dates have a quotient of 3 and a sum of 32?

_____________________________

4. Which two dates have product of 108 and a difference of 3?

_____________________________

Puzzler

When the power stops, so do the electric clocks. Solve the word problems.

1. The clock says ________________ .

   The power has been back on for 7 minutes.
   It was off for 52 minutes.
   The correct time should be ________________ .

2. This clock says ________________ .

   The power has been back on since 11:45.
   It was off for 35 minutes.
   The correct time should be ________________ .
Name ___________________________ Date ____________________

Number Place

Compare. Write <, =, or >.

2.5 _____ 0.25          1.5 _____ 1.08
0.7 _____ 0.07          9.02 _____ nine and two tenths
50.7 _____ fifty-seven   0.4 _____ 40

FAST Math

Find each quotient.

3,200 ÷ 4 = _________  6,024 ÷ 3 = _________  2,907 ÷ 2 = _________

6,015 ÷ 7 = _________  1,024 ÷ 5 = _________  3,268 ÷ 6 = _________

Think Tank

Greg does sit-ups every day. On 4 of the past 5 days he did 50, 60, 40, and 80 sit-ups. His average was 60 sit-ups a day over the 5 days. So how many sit-ups did he do on the fifth day?

__________________

Show your work in the tank.
All the students at Gershwin School were asked to name their favorite music group. The results for the top five answers are shown.

Use the data in the table to answer the questions.

1. How many votes did these groups get altogether? ____________________________

2. Which group got about $\frac{1}{4}$ of the votes? ____________________________

3. Which group got $\frac{1}{3}$ the number of votes The Bugs got? ____________________________

4. Which group got half as many votes as the Mangoes got? ____________________________

Music Group | Votes
--- | ---
Hot Potatoes | 203
The Mangoes | 142
The Bugs | 108
Louder Still | 71
Popped Corn | 36

Shade a picture in each grid. Draw anything you like—but make its area match the amounts shown.

0.34 + 0.3

0.78 – 0.43
**Number Place**

Order the decimals from least to greatest.

0.42 0.09 0.35  
0.63 0.2 0.43  
0.4 0.04 0.38  
0.75 0.57 0.06  

**FAST Math**

Write a fraction for the shaded part. Circle any fraction that shows less than one half.

![Shaded fractions](image)

**Think Tank**

Jeb hikes Grand Canyon trails. He hiked 1.7 miles on North Kaibab, 4.9 miles on Bright Angel, and 4.4 miles on South Kaibab. What is the difference in length between his longest and shortest hikes?

Show your work in the tank.
Use the train schedule to answer the questions below.

<table>
<thead>
<tr>
<th>Leaves</th>
<th>Time</th>
<th>Arrives</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tulip</td>
<td>10:00 A.M.</td>
<td>Rose</td>
<td>10:25 P.M.</td>
</tr>
<tr>
<td>Rose</td>
<td>10:29 A.M.</td>
<td>Lilac</td>
<td>10:44 P.M.</td>
</tr>
<tr>
<td>Lilac</td>
<td>10:48 A.M.</td>
<td>Crocus</td>
<td>11:26 P.M.</td>
</tr>
<tr>
<td>Crocus</td>
<td>11:30 A.M.</td>
<td>Aster</td>
<td>12:15 P.M.</td>
</tr>
</tbody>
</table>

1. Which is the shortest trip? ________________________________

2. Which trip lasts 38 minutes? ______________________________

3. At what time do you think the train arrives at Tulip? ____________

4. When do you think the train leaves Aster? ________________

Fill in this design using 4 different colors. You can repeat colors—but not where sections touch.
Name __________________________________________ Date ____________________

Number Place

Write the decimal from the balloon that fits each clue. One number is not used.

_________ is much nearer to 8 than to 9.

_________ is halfway between 8 and 9.

_________ is the same as three and three fourths.

_________ is a little less than 4.

FAST Math

Write a mixed number for the shaded area of each picture.

_______  ________  ________  ________

Think Tank

Renee spent $18.95 on a scarf, $39.95 on sweater, and $19.79 on a hat. About how much change should she get if she pays with a $100 bill?

_________

Show your work in the tank.
The line graph shows attendance at a new museum.

Use the graph to answer the questions.

**Yearly Museum Attendance**

1. How many people visited the museum in 2007? ________________
2. How many more visitors were there in 2011 than in 2010? ________________
3. How many people visited the museum from 2010 to 2012? ________________
4. What can you say about museum attendance over the six years? ________________
   ________________

**Puzzler**

Write 2 times when the clock hands would form:

- a right angle ________________
- a 180° angle ________________
- an obtuse angle ________________
- an acute angle ________________
Number Place

Order the decimals from greatest to least.

3.12    3.49    3.35
8.63    8.2    8.49
7.4    7.43    7.04
20.75    20.07    20.7

FAST Math

Write each fraction as the sum of unit fractions.

\[ \frac{3}{5} = \frac{\phantom{0}}{\phantom{0}} \]
\[ \frac{4}{7} = \frac{\phantom{0}}{\phantom{0}} \]
\[ \frac{3}{8} = \frac{\phantom{0}}{\phantom{0}} \]
\[ \frac{5}{9} = \frac{\phantom{0}}{\phantom{0}} \]
\[ \frac{7}{8} = \frac{\phantom{0}}{\phantom{0}} \]
\[ \frac{8}{11} = \frac{\phantom{0}}{\phantom{0}} \]

Think Tank

Juan scored an average of 22 points per game for his first 12 games. He scored 18 points per game in the next 12 games. How many points did he score in the first dozen games he played?

Show your work in the tank.
Data Place

Use the table below to tally all vowels in the riddle and in its answer.

Why is a giraffe's neck so long?
Because its head is so far from its body!

<table>
<thead>
<tr>
<th>Vowel</th>
<th>Tally</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i</td>
<td></td>
<td></td>
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<tr>
<td>o</td>
<td></td>
<td></td>
</tr>
<tr>
<td>u</td>
<td></td>
<td></td>
</tr>
<tr>
<td>y</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Puzzler

Write the weights you would use.

Total Weight | Weights Used
-------------|-------------
975 grams    | 1 kg 750 g 50 g 225 g
1,800 grams  | 1 kg 750 g 50 g 225 g
2,300 grams  | 1 kg 750 g 50 g 225 g
Name ___________________________ Date ___________________

**Number Place**

Round each decimal to the nearest tenth and hundredth.

<table>
<thead>
<tr>
<th>Number</th>
<th>Nearest tenth</th>
<th>Nearest hundredth</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.177</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.852</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.335</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FAST Math**

Write the value of $n$ to complete the equivalent fraction.

\[
\begin{array}{cccc}
\frac{1}{2} &=& \frac{n}{6} & \quad \frac{1}{4} &=& \frac{n}{8} & \quad \frac{2}{5} &=& \frac{n}{10} & \quad \frac{3}{8} &=& \frac{n}{16} \\
\frac{4}{8} &=& \frac{n}{4} & \quad \frac{2}{3} &=& \frac{n}{6} & \quad \frac{6}{10} &=& \frac{n}{5} & \quad \frac{5}{6} &=& \frac{n}{12} \\
\frac{3}{9} &=& \frac{n}{3} & \quad \frac{3}{4} &=& \frac{n}{8} & \quad \frac{3}{4} &=& \frac{n}{12} & \quad \frac{7}{8} &=& \frac{n}{24} \\
\end{array}
\]

**Think Tank**

Look at the fruit market signs.

Which market has the better buy on pears?

____________________

How much better?

____________________

Show your work in the tank.

**Fred's Fruit Market**

- Pears ......... 3 for $.96
- Apples ......... 4 for $1

**Fran's Fruit Market**

- Pears ......... 6 for $1.80
- Apples ......... 2 for $.45
Data Place

Li tallied the kinds of vehicles that passed her house for 1 hour. Show her results in a line plot. Give the line plot a title.

<table>
<thead>
<tr>
<th>Vehicle</th>
<th>Tally</th>
</tr>
</thead>
<tbody>
<tr>
<td>Car</td>
<td>III</td>
</tr>
<tr>
<td>Truck</td>
<td>II</td>
</tr>
<tr>
<td>Van</td>
<td>III</td>
</tr>
<tr>
<td>SUV</td>
<td>III I</td>
</tr>
<tr>
<td>Bus</td>
<td>II</td>
</tr>
</tbody>
</table>

Summarize what the line plot shows.

Puzzler

Use the fractions below to label the coins in each box. Then find each total value.

\[
\begin{align*}
\text{\(\frac{4}{5}\)} & \text{ are dimes, } \text{\(\frac{1}{5}\)} \text{ are quarters.} \\
\text{Total value: } & \\
\text{\(\frac{2}{3}\)} & \text{ are nickels, } \text{\(\frac{1}{3}\)} \text{ are quarters.} \\
\text{Total value: } & 
\end{align*}
\]
Number Place

Write a decimal equal to each fraction.

\[
\begin{align*}
\frac{2}{5} & \quad \frac{2}{8} & \quad 1\frac{1}{2} \\
3\frac{9}{10} & \quad 2\frac{6}{8} & \quad 1\frac{3}{4} \\
7\frac{1}{4} & \quad \frac{7}{10} & \quad 5\frac{4}{5}
\end{align*}
\]

FAST Math

Find the sum or difference in simplest form.

\[
\begin{align*}
\frac{7}{8} - \frac{3}{8} & = \quad \frac{9}{12} - \frac{5}{12} & = \quad \frac{1}{7} + \frac{5}{7} \\
\frac{7}{10} - \frac{4}{10} & = \quad \frac{1}{9} + \frac{4}{9} & = \quad \frac{8}{11} - \frac{2}{11}
\end{align*}
\]

\[
\begin{align*}
\frac{2}{6} + \frac{4}{6} & = \quad \frac{2}{5} + \frac{4}{5} & = \quad \frac{7}{8} - \frac{2}{8} & = \quad \frac{9}{10} - \frac{7}{10}
\end{align*}
\]

Think Tank

At 6:00 A.M. the temperature was 45°F. It rose 13°F by noon. What was the temperature at noon?

\[\quad\]

Show your work in the tank.
Use the Venn diagram and numbers between 0 and 50. Write multiples of 4 in one part. Write multiples of 6 in the other part, and multiples of 4 and 6 in the overlapping part.

Multiples of 4 only 4 and 6 Multiples of 6 only

Find each small array inside the big array on the right. When you find it, circle it and write its number.

1 2 3

Identify each small array inside the big array on the right. When you find it, circle it and write its number.
Name _________________________________________________ Date ____________________

Number Place

Write a fraction equal to each decimal.

0.35 ___ 4.6 ___ 3.75 ___ 0.17 ___
5.97 ___ 4.63 ___ 0.85 ___ 60.5 ___

FAST Math

Find the sum in simplest form.

\[
\begin{align*}
6 \frac{2}{6} + 7 \frac{4}{6} &= 4 \frac{2}{5} + 1 \frac{4}{5} = 3 \frac{1}{3} + 4 \frac{1}{3} = 1 \frac{3}{8} + 7 \frac{5}{8} \\
6 + 3 \frac{4}{9} &= 2 \frac{7}{8} + 5 \frac{4}{8} = 3 \frac{1}{5} + 8 \frac{3}{5} = 2 \frac{2}{4} + 2 \frac{3}{4}
\end{align*}
\]

Think Tank

Find the area of the figure.

Area = ______ square units

Show your work in the tank.
Data Place

What if dogs could vote? The graph shows how 60 dogs might vote if asked what kind of food they’d like for dinner.

Use the graph to answer the questions.

1. How many dogs chose pizza crust? __________
2. What food did \( \frac{24}{60} \) of the dogs choose?
   _______________________________________
3. What food did 9 of the dogs choose?
   _______________________________________
4. What fraction of dogs did not choose steak or tuna? __________
5. Suppose 120 dogs voted. How many might a choose bone? __________

Puzzler?

Write a letter from the code to make each number sentence true.

<table>
<thead>
<tr>
<th>A = 1</th>
<th>B = 2</th>
<th>C = 3</th>
<th>D = 4</th>
<th>E = 5</th>
<th>F = 6</th>
<th>G = 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>H = 8</td>
<td>I = 9</td>
<td>J = 10</td>
<td>K = 11</td>
<td>L = 12</td>
<td>M = 13</td>
<td>N = 14</td>
</tr>
<tr>
<td>O = 15</td>
<td>P = 16</td>
<td>Q = 17</td>
<td>R = 18</td>
<td>S = 19</td>
<td>T = 20</td>
<td>U = 21</td>
</tr>
<tr>
<td>V = 22</td>
<td>W = 23</td>
<td>X = 24</td>
<td>Y = 25</td>
<td>Z = 26</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. \( C \times ____ = X \)  
2. \( Y \div E = ____ \)  
3. \( Y - Q = F + ____ \)  
4. \( J + T = C \times ____ \)  
5. _____ - R = H ÷ A  
6. U ÷ ____ = C \times A  
7. F \times ____ = H \times I  
8. C \times B + ____ = K
Name _________________________________  Date __________________

**Number Place**

Write 3 decimals that belong between.

\[
2 < \underline{\phantom{0000}} < 3 \\
9 > \underline{\phantom{0000}} > 8 \\
12 < \underline{\phantom{0000}} < 13 \\
80 > \underline{\phantom{0000}} > 79 \\
5.5 < \underline{\phantom{0000}} < 6 \\
3.2 > \underline{\phantom{0000}} > 3.1
\]

**FAST Math**

Find the difference in simplest form.

\[
\begin{align*}
6 \frac{2}{6} & - 3 \frac{1}{6} = 2 \frac{5}{6} \\
4 \frac{4}{5} & - 1 \frac{3}{5} = 3 \frac{1}{5} \\
7 \frac{5}{8} & - 4 \frac{4}{8} = 3 \frac{1}{8} \\
7 \frac{7}{9} & - 5 \frac{4}{9} = 2 \frac{3}{9}
\end{align*}
\]

\[
\begin{align*}
8 \frac{6}{7} & - 7 \frac{4}{7} = 1 \frac{2}{7} \\
12 \frac{7}{8} & - 7 \frac{5}{8} = 4 \frac{2}{8} \\
8 \frac{4}{5} & - 7 \frac{1}{5} = 1 \frac{3}{5} \\
9 \frac{2}{3} & - 7 = 2 \frac{2}{3}
\end{align*}
\]

**Think Tank**

A tennis court is a rectangle 78 feet long and 27 feet wide. What is the area of a tennis court?

___________________________

Show your work in the tank.
Data Place

The chart shows five holidays in Mexico.

Use the data and your number sense to place and label each holiday on the timeline.

<table>
<thead>
<tr>
<th>Holiday</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constitution Day</td>
<td>February 5</td>
</tr>
<tr>
<td>Benito Juarez Birthday</td>
<td>March 19</td>
</tr>
<tr>
<td>Cinco de Mayo</td>
<td>May 5</td>
</tr>
<tr>
<td>Independence Day</td>
<td>September 16</td>
</tr>
<tr>
<td>Revolution Day</td>
<td>November 19</td>
</tr>
</tbody>
</table>

Puzzler

Each problem is shown in mostly letters. Above each problem are the rest of the numbers it needs.

Figure out the number for each letter to make the problems work.
Name __________________________________________ Date ____________________

**Number Place**

Write 3 decimals that belong between.

\[
\frac{9}{10} > \underline{} > \frac{5}{10} \quad \frac{2}{5} < \underline{} < \frac{4}{5}
\]

\[
12 < \underline{} < 12 \frac{1}{2} \quad 8 \frac{1}{4} < \underline{} < 8 \frac{3}{4}
\]

\[
5 \frac{1}{5} < \underline{} < 5 \frac{3}{5} \quad 3 \frac{1}{4} < \underline{} < 3 \frac{1}{2}
\]

**FAST Math**

Find the product.

\[
\frac{1}{3} \text{ of } 12 = \underline{} \quad \frac{1}{2} \text{ of } 18 = \underline{} \quad \frac{1}{3} \text{ of } 24 = \underline{}
\]

\[
\frac{1}{10} \text{ of } 20 = \underline{} \quad \frac{1}{4} \text{ of } 16 = \underline{} \quad \frac{1}{8} \text{ of } 32 = \underline{}
\]

\[
\frac{1}{5} \text{ of } 40 = \underline{} \quad \frac{1}{6} \text{ of } 18 = \underline{} \quad \frac{1}{8} \text{ of } 48 = \underline{}
\]

**Think Tank**

A book has 120 pages. One eighth of the pages have pictures. Two eighths have graphs. The rest of the book’s pages have text only. What fraction of the book has neither pictures nor graphs?

__________________

Show your work in the tank.
Data Place

The table shows scoring in the National Football League. The scoreboard shows the last time the Melons played the Pumpkins.

Use the clues to fill in the scoreboard.

<table>
<thead>
<tr>
<th>Quarter</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>Final Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melons</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumpkins</td>
<td>2</td>
<td>3</td>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- The Melons scored a touchdown in the 2nd quarter.
- The Melons scored a touchdown with an extra point in the 3rd quarter.
- The Pumpkins scored a field goal in the fourth quarter.
- The Melons won the game by 4 points.

Puzzler

Use logic to figure out what a nerp is. Then solve.

<table>
<thead>
<tr>
<th>EACH of these is a nerp.</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>![Square]</td>
<td>![Diamond]</td>
<td>![Quadrilateral]</td>
<td>![Hexagon]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NONE of these is a nerp.</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>![Circle]</td>
<td>![Octagon]</td>
<td>![Triangle]</td>
<td>![Wave]</td>
</tr>
</tbody>
</table>

Circle all the nerps.

What is the rule for a nerp? ___________________________
Number Place

Write the number that is 0.1 more.

2.2 _______ 3.5 _______ 7.8 _______
4.9 _______ 6.61 _______ 9.72 _______

Write the number that is 0.01 more.

3.23 _______ 2.39 _______ 9.06 _______
8.7 _______ 54.09 _______ 40 _______

FAST Math

Write each as an improper fraction.

\[
2 \frac{2}{3} \quad 3 \frac{1}{8} \quad 6 \frac{1}{5} \quad 4 \frac{3}{4} \\
1 \frac{7}{8} \quad 2 \frac{5}{6} \quad 3 \frac{4}{5} \quad 10 \frac{1}{2}
\]

Think Tank

Mori rode his bike 5 \(\frac{3}{4}\) miles on Saturday and 4 \(\frac{1}{4}\) miles on Sunday. Sam rode for 5 \(\frac{1}{4}\) miles on each of those days. Who rode farther?

_____________________

By how much?

_____________________

Show your work in the tank.
Data Place

Use two dot cubes. Toss them 50 times. Make an X for each sum in the line plot below. Be sure you have 50 Xs in all.

What interesting things do you see in the data?

_____________________________

_____________________________

2 3 4 5 6 7 8 9 10 11 12

Puzzler

Solve each division problem. Then color.

- RED if the remainder is even.
- YELLOW if the remainder is odd.
- BLUE if there is no remainder.

734 ÷ 3 762 ÷ 4 932 ÷ 7
111 ÷ 9 884 ÷ 3 568 ÷ 5
936 ÷ 8 840 ÷ 5 714 ÷ 6
Name __________________________________________ Date ____________________

Number Place

Write each money amount as a fraction or mixed number.

- $4.27 ___________ five dollars and twenty-five cents ___________
- $34.85 ___________ eighteen dollars and seven cents ___________
- $.49 ___________ $15.05 ___________

FAST Math

Write each as a mixed number.

\[
\begin{align*}
\frac{8}{3} & \quad \frac{9}{8} & \quad \frac{11}{5} & \quad \frac{6}{5} \\
\frac{17}{8} & \quad \frac{25}{6} & \quad \frac{24}{5} & \quad \frac{12}{10}
\end{align*}
\]

Think Tank

There are 24 students in Suki’s class. One-half gets a ride to school. One-half of those comes by bus. How many students come by bus?

____________________

Show your work in the tank.
Data Place

Ashley’s Awful Foods is an awful place to eat. Check out today’s lunch menu. Does it make you hungry?

Use the menu to answer the questions.

1. Dave orders pancakes and 1 drink. He pays with $10. What will his change be? ________________

2. Omar orders the most expensive and least expensive foods. He has $10. Can he also buy a drink? ___________ Explain. ____________________________

3. You have $15. You order 3 drinks. Can you order 3 burgers? ______________

   Explain. ____________________________

4. Ella spent $5.95, including a tip of $1. She ordered a main course and a drink. What main course did she order? ____________________________

Puzzler

A number cube has the numbers 1, 2, 3, 4, 5, and 6 on its faces. Here are two views of the same number cube. Answer the questions below.

What number is opposite the 2? _________

What number is opposite the 3? _________

What number is opposite the 6? _________
Name __________________________________ Date ____________________

**Number Place**

Compare. Write <, =, or >.

- \(0.5 \underline{\quad} \frac{1}{5}\)
- \(0.2 \underline{\quad} \frac{1}{2}\)
- \(0.7 \underline{\quad} \frac{3}{4}\)
- \(0.65 \underline{\quad} \frac{65}{100}\)
- \(\frac{1}{2} \underline{\quad} 0.2\)
- \(\frac{1}{6} \underline{\quad} 0.1\)
- \(\frac{1}{4} \underline{\quad} 0.4\)
- \(\frac{3}{4} \underline{\quad} 0.8\)
- \(\frac{9}{10} \underline{\quad} 0.9\)

**FAST Math**

Solve.

- \(\frac{1}{2}\) of 400 = ________
- \(\frac{1}{4}\) of 400 = ________
- \(\frac{1}{8}\) of 800 = ________
- \(\frac{1}{3}\) of 600 = ________
- \(\frac{1}{2}\) of 700 = ________
- \(\frac{1}{6}\) of 300 = ________
- \(\frac{1}{2}\) of 1,000 = ________
- \(\frac{1}{2}\) of 5,000 = ________
- \(\frac{1}{10}\) of 1,000 = ________

**Think Tank**

There are 32 students in Carl’s class. One-eighth of them send 10 or more texts a day. How many text at least 10 times a day?

_____________________

Show your work in the tank.
The table shows miles between some cities in the state of Washington.

• Follow across a row for one city.
• Follow down a column for another.
• The number where they meet is how many miles apart they are.

Use the data in the table to answer the questions.

<table>
<thead>
<tr>
<th></th>
<th>Colville</th>
<th>Olympia</th>
<th>Wenatchee</th>
<th>Yakima</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seattle</td>
<td>350</td>
<td>60</td>
<td>148</td>
<td>141</td>
</tr>
<tr>
<td>Spokane</td>
<td>71</td>
<td>319</td>
<td>169</td>
<td>201</td>
</tr>
<tr>
<td>Tacoma</td>
<td>362</td>
<td>28</td>
<td>160</td>
<td>153</td>
</tr>
</tbody>
</table>

1. Which city is farthest from Seattle? ________________________________

2. Which two cities are 319 miles apart? ________________________________
   ________________________________________________________________

3. Which city is nearly as far from Spokane as it is from Tacoma?
   ________________________________________________________________

Puzzler

Follow the directions.

• Draw a ★ in each pentagon.
• Write a Q in each quadrilateral.
• Write an H in each hexagon.
• Draw an octopus in each octagon.
Name ___________________________ Date ___________________

Number Place

Compare. Write <, =, or >.

2.5 ___ 2 \( \frac{1}{4} \)  
1.25 ___ 1 \( \frac{1}{4} \)  
9.6 ___ 9 \( \frac{1}{2} \)  
3.4 ___ 3 \( \frac{3}{4} \)  
8 \( \frac{1}{2} \) ___ 8.2  
3.7 ___ 3 \( \frac{3}{4} \)  
3.9 ___ 3 \( \frac{9}{10} \)  
2 \( \frac{1}{4} \) ___ 2.14  
6.8 ___ 6 \( \frac{3}{4} \)  

FAST Math

Find the answer. Watch the signs!

\[ \begin{align*} 
527 \times 6 & = 3162 \\
4)981 & \quad \text{and} \quad 68,507 - 7,819 = 60,688 \\
& \quad \text{and} \quad 35.06 + 27.85 = 62.91 \\
\end{align*} \]

\[ \begin{align*} 
3.4 + 0.8 & = 4.2 \\
6.0 - 0.7 & = 5.3 \\
\$4.61 - \$0.88 & = \$3.73 \\
\end{align*} \]

\[ 6)624 \]

Think Tank

Which of the angles in the tank is an acute angle? Write its letter name.

______________________________

How did you know?

______________________________

______________________________
Data Place

The table shows stock market prices for three companies on one day. The decimals show prices in dollars.

Use the table to answer the questions below.

<table>
<thead>
<tr>
<th>Company</th>
<th>Opening Price</th>
<th>High Price</th>
<th>Low Price</th>
<th>Closing Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dataworx</td>
<td>1.50</td>
<td>1.75</td>
<td>1.25</td>
<td>1.60</td>
</tr>
<tr>
<td>Healthco</td>
<td>8.15</td>
<td>8.80</td>
<td>8.15</td>
<td>8.75</td>
</tr>
<tr>
<td>Gametime</td>
<td>25.25</td>
<td>28.20</td>
<td>24.75</td>
<td>25.25</td>
</tr>
</tbody>
</table>

1. Which stock closed $.10 higher than it opened? ____________________________

2. Which stock’s high price was $.65 more than its opening price?
   _______________________________________________________________________

3. Which stock’s low price was the same as its opening price?
   _______________________________________________________________________

4. Which stock had a difference of $3.45 between its lowest and highest price?
   _______________________________________________________________________

Puzzler

Each box represents 1 square inch.

How many square inches are shaded?

__________________
**Number Place**

Read the clues to figure out the number.
- I am a 4-digit decimal between 10 and 20.
- My tenths digit is twice my tens digit.
- The sum of my tenths and ones digits equals my hundredths digit.
- The sum of all my digits is 11.

What number am I? ________________

**FAST Math**

Multiply. Circle the pair of products that have a sum of 5,100.

\[
\begin{array}{cccc}
33 & \times & 22 & \quad 23 & \times & 11 & \quad 42 & \times & 12 & \quad 48 & \times & 99 \\
64 & \times & 39 & \quad 75 & \times & 29 & \quad 62 & \times & 42 & \quad 44 & \times & 83 \\
\end{array}
\]

**Think Tank**

I am a quadrilateral. All my sides are the same length. But none of my angles are right angles. Draw me in the tank. What am I called?

_________________

Show your thinking in the tank.
Data Place

The chart shows how Shakir exercises for an hour each day.

Show the data in the circle graph.

Outline, shade, and label each section with the exercise it stands for.

Write the number of minutes.

<table>
<thead>
<tr>
<th>Exercise</th>
<th>Parts of an Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sit-ups</td>
<td>1/12</td>
</tr>
<tr>
<td>Stretches</td>
<td>1/6</td>
</tr>
<tr>
<td>Treadmill</td>
<td>8/12</td>
</tr>
<tr>
<td>Weights</td>
<td>1/12</td>
</tr>
</tbody>
</table>

Exercises in One Hour

Puzzler

Half a bat appears on one side of a line of symmetry.
Shade in the rest of the bat.
Keep it symmetric.
Jumpstart 1
Number Place: (Left to right) 302; 3,255; 7,287; 2,203; 2,761; 9,219; 223; 2,279; 2,196; 734; 5,305; 5,040
Fast Math: (Left to right) 11; 15; 15; 12; 15; 11; 16; 17; 18
Think Tank: Ming
Data Place: 1. 24 2. 151 3. swimsuit
Puzzler:

Jumpstart 2
Number Place: (Top to bottom) tens; hundreds; ten-thousands; thousands; ten-thousands; thousands; ten-thousands; hundreds; tens; hundred-thousands
Fast Math: (Left to right) 10; 7; 9; 13; 8; 6; 8; 10
Think Tank: $10.95
Data Place: 1. 48 2. 12 3. alts and bases 4. sopranos
Puzzler:

Jumpstart 3
Number Place: 3,015; 29,437; 643,000; 82,311
Fast Math: 65; 58; 96; 470; 790; 834
Think Tank: 5¢
Data Place: 1. Ridge 2. Ridge and Old Mine 3. Waterfall
Puzzler: 1. 800 2. 560 3. 132 = 1 hundred, 3 tens, 1 two 4. 150 = 1 hundred, 4 tens, 5 twos

Jumpstart 4
Number Place: four thousand three hundred nineteen; forty-four thousand one hundred fifty-nine; twenty-seven thousand eight; sixty thousand six; three hundred nine thousand two hundred fifty-four
Fast Math: (Left to right) 7,426; 947; 619; 8,214; 5,963; 1,074; 8,214 + 619 = 8,833
Think Tank: Ben
Data Place: 1. 70 2. beaver 3. 10 4. bear
Puzzler: 1. 17 2. 15 3. 5 4. 64

Jumpstart 5
Number Place:

<table>
<thead>
<tr>
<th>Hundreds</th>
<th>Thousand</th>
<th>Ten Thousands</th>
<th>Hundred Thousands</th>
<th>Hundreds</th>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

Jumpstart 6
Number Place:

<table>
<thead>
<tr>
<th>Hundreds</th>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>7</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>7</td>
<td>6</td>
</tr>
</tbody>
</table>

Fast Math: 10,198; 43,181; 32,036
Think Tank: 15 eggs
Data Place: 1. 1 ticket = 10 students
2. comedy 3. 30 4. 170
Puzzler: 6 5 8 7

Jumpstart 7
Number Place: 10; 100; 1,000; 10,000; 100,000
Fast Math: (Left to right) 8,807; 93,363; 71,362; 493,581; 9,361; 691,858
Think Tank: 22
Data Place:

<table>
<thead>
<tr>
<th>Sandwich</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peanut Butter</td>
<td>8</td>
</tr>
<tr>
<td>Grilled Cheese</td>
<td>16</td>
</tr>
<tr>
<td>Tuna</td>
<td>18</td>
</tr>
<tr>
<td>Ham Burger</td>
<td>12</td>
</tr>
</tbody>
</table>

Puzzler: 15,359; 3,815; 536

Jumpstart 8
Number Place: (Top to bottom) 59,000; 899,000; 999,000; 3,399; 55,799; 1,000,000
Fast Math: (Left to right) 29,808; 120,359; 86,405; 242,112; 469,361; 1,401,714
Think Tank: 20
Data Place: 1. trapezoid 2. quadrilateral with exactly 1 pair of parallel sides
3. Check students' answers.
Puzzler: 10; by identifying and counting groups of same-size segments.

Jumpstart 9
Number Place: (Top to bottom) 50,000; 890,000; 990,000; 127,399; 664,799; 988,888
Fast Math: (Left to right) 414; 21; 453; 1,127; 112; 5,271
Think Tank: 185
Data Place: 1. 41 2. soccer 3. hockey
Puzzler: Check students' solutions.

Jumpstart 10
Number Place: (Left to right) 2 < 2; 2 < 3
Fast Math: (Left to right) 4,337; 181; 363; 533; 1,472; 2,391
Think Tank: 218 mi
Data Place: 1. 30 2. 9 3. 4 4. 6 5. 18
Puzzler: Answers may vary; sample answer: 175 + 326 + 498 = 999

Jumpstart 11
Number Place: 1,409; 4,190; 14,009; 12,007; 12,707; 21,700; 508,850; 805,058; 850,058; 12,200,000; 21,000,000; 210,200,000
Fast Math: (Left to right) 6,158; 1,671; 379; 3,297; 79; 5,297
Think Tank: 19,669
Data Place: 1. Nov. 22, 23, and 24
2. Nov. 11 and 12 3. 260 4. 6
Puzzler: 1. 2 = 2, A = 5 2. 9 = 6, 90 = 3

Jumpstart 12
Number Place:

<table>
<thead>
<tr>
<th>Hundreds</th>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>40</td>
<td>0</td>
</tr>
<tr>
<td>16</td>
<td>160</td>
<td>0</td>
</tr>
<tr>
<td>90</td>
<td>900</td>
<td>0</td>
</tr>
<tr>
<td>240</td>
<td>2,400</td>
<td>0</td>
</tr>
<tr>
<td>4,100</td>
<td>41,000</td>
<td>0</td>
</tr>
</tbody>
</table>

Fast Math: (Left to right) 40,945; 7,341; 45,313; 63,377; 1,115; 88,268
Think Tank: 12; 38
Data Place: 1. Rangers 2. Marlins
3. Cardinals got 5 times as many votes as Americans
Puzzler:

Jumpstart 13
Number Place:

<table>
<thead>
<tr>
<th>Number</th>
<th>Nearest 100</th>
<th>Nearest 1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>67</td>
<td>60</td>
<td>600</td>
</tr>
<tr>
<td>1,862</td>
<td>1,860</td>
<td>1,900</td>
</tr>
<tr>
<td>4,345</td>
<td>4,350</td>
<td>4,300</td>
</tr>
<tr>
<td>89,083</td>
<td>89,000</td>
<td>89,100</td>
</tr>
</tbody>
</table>

Fast Math: Estimates may vary; check for reasonableness; sample estimates: (Left to right) 10,000; 9,800; 90,000; 800,000; 11,000; 930,000
Think Tank: 1 quarter, 3 dimes, 1 nickel
Puzzler: Answers will vary; check students’ computations.

Jumpstart 14
Number Place: (Top to bottom) 1,000; 10,000: 90,000; 400,000; 900; 300,000
Fast Math: (Left to right) 50,000; 5,500; 500,000; 25,000; 200,000; 770,000
Think Tank: 54 ft or 18 yd
Data Place: 1. $750.00 2. $136.04 3. bracelet, watch 4. $184.99 5. ring and earrings
Puzzler: parallelogram

Jumpstart 15
Number Place: (Top to bottom) 900,000; 192,870; 810,000; 400,000; 922,000; 240,000
Fast Math: (Left to right) $11.67; $.09; $122.54; $863.52; $622.95; $253.67
Think Tank: 54 in
Data Place: Data will vary; check students’ tables and graphs.
Puzzler: 265 – 138 = 127; 119 + 526 = 645; 682 – 337 = 345; 416 + 187 = 603; 842 – 83 = 759

Jumpstart 16
Number Place: 2,000 + 300 + 80 + 2; 40,000 + 300 + 6; 200,000 + 20,000 + 5,000 + 900 + 60; 600,000 + 10
Fast Math: Estimates may vary; check for reasonableness; sample estimates: (Left to right) $110; $35; $1,200; $300; $600; $740
Think Tank: 3 quarters, 1 dime, 3 nickels
Data Place: Multiples of 3 only—3, 6, 9, 12, 18, 21, 24, 27, 33, 36, 39, 42, 48; multiples of 5 only—5, 10, 20, 25, 35, 40, 50; both—15, 30, 45
Puzzler: Solutions will vary; check students’ designs.

Jumpstart 17
Number Place: 765,321; 123,567; 765,312; 765,321
Fast Math: (Left to right) 27; 30; 28; 40; 0; 36; 42; 3; 42
Think Tank: 80 ft
Data Place: 1. 41 km 2. Go through PEA, 25 km 3. Carrot and Lettuce
Puzzler: 880; 100; 36

Jumpstart 18
Number Place: 27,222
Fast Math: (Left to right) 72; 45; 49; 56; 0; 63; 8; 41; 8
Think Tank: Iris, 55 lb; Ivan, 65 lb
Data Place: 1. 30 2. cats 3. 4 times 4. More kids have dogs than any other kind of pet.
Puzzler: 30; by identifying and counting different-size rectangles.

Jumpstart 19
Number Place:

<table>
<thead>
<tr>
<th>Amount</th>
<th>Nearest $1</th>
<th>Nearest $10</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6.17</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>$28.62</td>
<td>$29</td>
<td>$30</td>
</tr>
<tr>
<td>$434.45</td>
<td>$434</td>
<td>$540</td>
</tr>
</tbody>
</table>

Fast Math: Break-apart numbers may vary for the second row of problems.

Jumpstart 20
Number Place:

<table>
<thead>
<tr>
<th>Amount</th>
<th>Nearest $100</th>
<th>Nearest $1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>$695.32</td>
<td>$700</td>
<td>$1,000</td>
</tr>
<tr>
<td>$1,240.56</td>
<td>$1,200</td>
<td>$1,000</td>
</tr>
<tr>
<td>$6,483.45</td>
<td>$6,800</td>
<td>$7,000</td>
</tr>
</tbody>
</table>

Fast Math: (Left to right) 120; 200; 240; 180; 350; 1,200; 3,000; 2,000; 2,100; 4,800; 1,800; 1,200
Think Tank: 0; any number multiplied by 0 is 0.
Data Place: 1. 80 lb; 40 lb 2. 20 lb 3. Stock is decreasing.
Puzzler:

<table>
<thead>
<tr>
<th>Day</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hrs</td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
</tr>
</tbody>
</table>

1. $100 2. $128

Jumpstart 21
Number Place: $4.60; $27.34; $190.02; $2,015.50
Fast Math: (Left to right) 48,000; 24,000; 24,000; 28,000; 15,000; 72,000; 18,000; 56,000; 48,000
Think Tank: 4 ducks, 5 cows
Data Place: 1. 30 2. 9 3. 4 hours 4. 3 5. 10
Puzzler: Answers may vary; sample answers: Number Words—operation, plus, even, seven; Measure Words—ruler, ounce, pound, scale; Geometry Words—rectangle, octagon, equilateral, sphere

Jumpstart 22
Number Place: (Left to right) <;>; <;>; <;>;
Fast Math: (Left to right) 210; 240; 1,600; 3,200; 2,000; 7,200; 210; 5,400; 2,800
Think Tank: 16 times
Data Place: 1. 40-inch 2. 32-inch 3. 60-inch 4. 400
Puzzler: Punnxsutowney

Jumpstart 23
Number Place: (Left to right) <;>; <;>; <;=
Fast Math: (Left to right) 3,500; 2,800; 16,000; 3,200; 20,000; 27,000; 1,800; 4,500; 24,000
Think Tank: 750
Data Place:

Jumpstart 24
Number Place: Answers may vary; sample answers: (Left to right) 2,145; 51,397; 7,075; 60,000; 89,002; 30,050
Fast Math: (Left to right) 280; 364; 76; 4,212; 1,896; 544; 2,766; 364; 5,257
Think Tank: 6 vans
Data Place: 1. $20.70 2. Fish food, tank plant, ship 3. 6 ships, $5.80
Puzzler: 1;%, any fraction in eighths 2; 1%, any mixed number equal to 1 1/2

Jumpstart 25
Number Place: 30,003; 300,003; 10,001; 11,001; 200,007; 2,000,008; 1,006; 105
Fast Math: (Left to right) 180; 392; 1,588; 4,512; 4,896; 624; 1,866; 301; 3,355
Think Tank: bag of eyeballs and clown shoes
Data Place: Square 1: (1, 1), (1, 2), (2, 1); Square 2: (2, 2), (2, 4), (4, 2); Square 3: (3, 3), (3, 6), (6, 3); The numbers in the ordered pairs of the 3rd square are 3 times greater than the similar numbers in the 1st square.
Puzzler: Solutions may vary; sample answers:

Jumpstart 26
Number Place: 101,005; 8,311; 4,981; 85,875; 100,500; 101,005; (Leftover numbers) 8,005, 9,005, 10,500, 20,530
Jumpstart 27
Number Place: 0.3; 0.6
Fast Math: (Left to right) 9; 8; 10; 6; 0; 10; 9
Think Tank: $15.30
Data Place: 1. Answers will vary; check students’ responses. 2. Answers will vary; check students’ responses. 3. 6 in
Puzzler: 1. 5 x 447 2. 4 x 316

Jumpstart 28
Number Place: 0.26; 0.47
Fast Math: (Left to right) 4; 8; 6; 7; 0; 6; 7; 9
Think Tank: 2.5 g
Data Place: In the Kennel
Puzzler: addend; hexagon

Jumpstart 29
Number Place: 7.4, 40.43; 7.14, 24.04; 4.01, 40.32
Fast Math: (Left to right) 4; 4; 4; 7; 5; 8; 6; 6; 7
Think Tank: 10
Data Place: 1. 56 2. Africa 3. 8
Puzzler: 1. 99¢ 2. 87¢ more

Jumpstart 30
Number Place: (Left to right) 0.3; 0.07; 0.62; 0.16; 0.9; 0.01
Fast Math: 270; 48; 480; 49; 490; 4,900; 70; 6; 60; 80; 800
Think Tank: 4.4 m
Data Place: 1. Chrysler 2. Hancock Place 3. First Hawaiian Center
Puzzler: Answers will vary; sample answers: tulip (1, 3) (5, 0) (5, 2) (1, 1) (5, 1); oven (5, 4) (3, 5) (2, 4), (2, 0); grape (0, 0) (3, 1) (3, 2) (5, 1) (2, 4)

Jumpstart 31
Number Place: (Left to right) <; <; >;
Fast Math: 50; 70; 280; 280; 320; 540; 100, 400
Think Tank: 2.31 sec
Data Place: 1. 20 2. 50 3. 80 4. 7.5 5. 45
Puzzler: It is separated from the other scores.

Jumpstart 32
Number Place: 1.2, 1.5, 1.6, 1.9; 6.1, 6.4, 6.7, 6.8; 10.9, 10.6, 10.1, 0.4; 12.8, 12.7, 12.3, 11.9
Fast Math: Estimates may vary; sample estimates: (Left to right) 5; 4; 60; 70; 40;
80; 7; 70; 100
Think Tank: 7,200 sec
Data Place: _____________________

Jumpstart 33
Number Place: (Left to right) <; <; >;
Fast Math: Estimates may vary; sample estimates: (Left to right) 50; 50; 600; 60;
900; 400; 700; 400; 700
Think Tank: 1,140 ft

Check students’ graphs for reasonable-ness; Rita Dove, Chavez, Whitman, McAuliffe
Puzzler: 

Jumpstart 34
Number Place: 1.02, 1.05, 1.06, 1.92; 4.47, 6.14, 6.43, 6.73; 10.91, 10.06, 10.01, 9.99; 12.37, 12.23, 11.23; 10.16
Fast Math: (Left to right) 24; 24; 16; 14; 38; 21; 51; 22; 32
Think Tank: 12 cups
Puzzler: Check students’ designs.

Jumpstart 35
Number Place: 0.0 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
Fast Math: (Left to right) 75 R6; 53; 44; 33 R4; 18 R2; 14 R1; 20 R4; 139 R1
Think Tank: 1¾ or 1¾ h
Data Place: 1. 26 2. ¾ 3. ¾ 4. 22, 22¾ (or 1¾)
Puzzler: 22 geese, 14 goats

Jumpstart 36
Number Place: 
Tens Ones • Tenths Hundredths
1 4 • 0 5 9
2 0 • 0 6 1
3 4 • 5 9 2
4 8 • 0 6 3
5 0 • 2 7 4

Jumpstart 37
Number Place: (Left to right) >; >; >; <;
Fast Math: (Left to right) 800; 2,008; 1,453 R1; 859 R2; 204 R4; 544 R4
Think Tank: 70 sit-ups
Data Place: 1. 560 2. The Mangoes
3. Popped Corn 4. Louder Still
Puzzler: Drawings will vary; check that students have shaded 64 and 33 boxes, respectively.

Jumpstart 38
Number Place: 0.09, 0.35, 0.42; 0.2, 0.43, 0.63; 0.04, 0.38, 0.4; 0.06, 0.57, 0.75
Fast Math: 1¼ 3½ 4½;
Think Tank: 3.2 mi
Data Place: 1. Rose to Lilac 2. Lilac to Crocus 3. 9:56 A.M. 4. 12:19 P.M.
Puzzler: Answers will vary; check students’ designs.

Jumpstart 39
Number Place: 8.05; 8.5; 3.75; 3.97
Fast Math: 2½; 1½; ½ ¾; 2¼
Think Tank: about $20
Data Place: 1. 20,000 2. 10,000
3. 115,004. It has mostly been increasing.
Puzzler: Accept any reasonable answers; sample answers: 3:00; 6:00; 3:40; 1:00

Jumpstart 40
Number Place: 3.49, 3.35, 3.12; 8.63, 8.49, 8.2; 7.43, 7.4, 7.04; 20.75, 20.7, 20.07
Fast Math: (Left to right) \( \frac{1}{2} + \frac{1}{3} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} \)

Data Place:

<table>
<thead>
<tr>
<th>Tally</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>5</td>
</tr>
<tr>
<td>+</td>
<td>5</td>
</tr>
<tr>
<td>+</td>
<td>5</td>
</tr>
<tr>
<td>o</td>
<td>5</td>
</tr>
<tr>
<td>+</td>
<td>1</td>
</tr>
<tr>
<td>+</td>
<td>2</td>
</tr>
</tbody>
</table>

Puzzler: Use the Venn diagram and numbers between 0 and 50. Write in its answer.

Jumpstart 44
Number Place: Sample answers: (Left to right) 2.1, 2.2, 2.3; 8.5, 8.3, 8.1; 12.5, 12.6, 12.7; 79.9, 79.8, 79.7; 5.6, 5.7, 5.8; 3.17, 3.16, 3.15

Fast Math: (Left to right) 3\%; 3\% \div 3 \%; 2\%; 1\%; 5\%; 1\%; 2\%

Think Tank: 2,106 ft²

Jumpstart 45
Number Place: Answers may vary; sample answer: (Left to right) 0.8, 0.7, 0.6; 0.5, 0.6, 0.7; 12.2, 12.3, 12.4; 8.22, 8.23, 8.24; 5.3, 5.4, 5.5; 3.26, 3.27, 3.28

Fast Math: (Left to right) 4; 9; 8; 2; 4; 8; 3; 6

Think Tank: %

Data Place:

<table>
<thead>
<tr>
<th>Quarter</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>Final Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melons</td>
<td>3</td>
<td>6</td>
<td>7</td>
<td>2</td>
<td>18</td>
</tr>
<tr>
<td>Pumpkins</td>
<td>2</td>
<td>3</td>
<td>6</td>
<td>3</td>
<td>14</td>
</tr>
</tbody>
</table>

Puzzler:

A nerf is a quadrilateral.

Jumpstart 46
Number Place: (Left to right) 2.3; 3.6; 7.9; 5.0; 6.71; 9.82; 3.24; 2.4; 9.07; 8.71; 54.1; 40.01

Fast Math: (Left to right) 5\%; 3\%; 5\%; 3\%; 3\%; 5\%; 6\%; 5\%; 2\%

Think Tank: Sam; by ½ mi

Data Place: Check students’ line plots and descriptions.

Puzzler:

Jumpstart 47
Number Place: (Left to right) 4\%; 13\%; 5\% or 5\%; 3\% or 3\%; 34\% or 34\%; 18 \% or 18 \%

Fast Math: (Left to right) 2\%; 2\%; 1\%; 2\%; 1\%; 2\%; 4\%; 4\%; 1\% or 1\%

Think Tank: 6

Data Place: 1. $5.05; 2. yes; the food = $8 3. no; 3 x $4.20 > $12 4. pebble pancakes

Puzzler: 5; 4; 1

Jumpstart 48
Number Place: (Left to right) >; <; <; =; >; >; <; <; =