Jackson Roosevelt Elementary was recently named a TBEC honor school, a goal our board set for all district schools three years ago. Our challenge at that time was to bring up math scores. We turned to Mentoring Minds and Motivation Math. Our math scores were at 77%, now they are all above 95% with 5th grade at 100%. Thank you Mentoring Minds!!

— M. McAfee - Jackson Roosevelt Elementary Principal, Calhoun County ISD
Motivation Math - for STAAR™

The research-based math strategies in Motivation Math integrate critical thinking and test-taking skills with classroom instruction. Motivation Math fosters a positive attitude towards mathematics and improves math literacy.

- Addresses each STAAR Readiness and Supporting Standard
- Reflects the increased rigor of the STAAR
- Supports TEKS-based mathematics curricula and complements existing mathematics programs
- Provides practice aligned to the STAAR Reporting Categories
- Complements direct instruction with powerful, focused practice
- Empowers teachers to make sound instructional decisions and adjustments based on student performance data
- Builds mathematics vocabulary
- Incorporates critical thinking to extend and enhance mathematical reasoning

mentoringminds.com/staar-resources
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<td>96</td>
<td>97</td>
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<td>99</td>
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</tbody>
</table>
### guided practice

**1** Use the pairs of shoes to count by 2s. Write the numbers.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
</tbody>
</table>

2 _____ _____ 8 _____ 12

**2** Complete the chart.

<table>
<thead>
<tr>
<th>Pairs</th>
<th>Number of Shoes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
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<tr>
<td>3</td>
<td>6</td>
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<td>4</td>
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<tr>
<td>5</td>
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<tr>
<td>6</td>
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</tr>
</tbody>
</table>

**3** Use the hands to count by 5s. Write the numbers.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>10</td>
<td>15</td>
</tr>
</tbody>
</table>

5 _____ _____ 20 _____

**4** Complete the chart.

<table>
<thead>
<tr>
<th>Hands</th>
<th>Number of Fingers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>10</td>
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<tr>
<td>3</td>
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<tr>
<td>5</td>
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</tbody>
</table>

**5** Use the straws to count by 10s. Write the numbers.

<p>| | | |</p>
<table>
<thead>
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</thead>
<tbody>
<tr>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

10 _____ _____ _____

**6** Complete the chart.

<table>
<thead>
<tr>
<th>Bundles</th>
<th>Number of Straws</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
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<tr>
<td>3</td>
<td></td>
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<tr>
<td>4</td>
<td></td>
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</tbody>
</table>
1. Use the pairs of mittens to count by 2s. Write the numbers. 

2. Shade the boxes to show counting by 2s.

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<td>16</td>
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<td>18</td>
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</tbody>
</table>

3. Use the bags to count by 5s. Write the numbers.

5. Complete the chart.

<table>
<thead>
<tr>
<th>Bags</th>
<th>Number of Marbles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>10</td>
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<tr>
<td>7</td>
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</table>

4. Draw 4 groups of 10 sticks. Use the sticks to count by 10s. Write the numbers.

6. Shade the boxes to show counting by 10s.

<p>| | | | | |</p>
<table>
<thead>
<tr>
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<td>36</td>
<td>37</td>
<td>38</td>
<td>39</td>
<td>40</td>
</tr>
</tbody>
</table>
assessment

1. Four children made footprints in the sand. Complete the chart to show how many toes are in the sand.

<table>
<thead>
<tr>
<th>Children</th>
<th>Number of Toes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

2. Mother bought grapes for Jim.

Draw 5 circles. Place 2 stars in each circle. Count by 2s. Write the numbers.

2 _____ _____ _____ _____

How many objects are in your picture?

___________

3. Draw 5 circles. Place 2 stars in each circle. Count by 2s. Write the numbers.

2 _____ _____ _____ _____

4. Mrs. Brown has 4 boxes of crayons. Each box has 10 crayons.

Choose the correct way to count these crayons.

- 5, 10, 15, 20
- 2, 4, 6, 8
- 10, 20, 30, 40
You should be proud.

Skip count by 5s to 50. Draw an X on the numbers that do NOT belong.

5 10 15 20 25 26 30 35

39 40 45 48 50

Color the numbers to show skip counting by 3s.

Write about a pattern you see on the chart.
homework

1. Draw 6 groups with 2 triangles in each group. Use the triangles to count by 2s. Write the numbers.

2 ___ ___ ___ ___ ___

How many triangles did you draw? ___

2. Draw 4 groups with 5 sticks in each group. Use the sticks to count by 5s. Write the numbers.

5 ___ ___ ___

How many sticks did you draw? ___

3. Draw 3 groups with 10 circles in each group. Use the circles to count by 10s. Write the numbers.

10 ___ ___

How many circles did you draw? ___

Parent Activities

1. Have your child gather pairs of shoes and place them in a line on the floor. With your child, count by 2s to find the total number of shoes. Repeat this activity with other household items that come in 2s, such as socks or gloves.

2. Have your child use paint to make up to 20 handprints. Use the handprints to count by 5s.

3. Place a group of pennies on the table. Have your child sort the pennies three different ways (by groups of 2, groups of 5, and groups of 10). Help your child count the number of pennies by using these skip counting patterns.
1. Look at the shape below.

What is the name of this figure?
Answer: ____________________

How many sides does the figure have?
Answer: ____________________

How many vertices does the figure have?
Answer: ____________________

2. What shape is most like a ball?

Answer: ____________________

3. Look at the figure below.

What is the name of this figure?
Answer: ____________________

How many faces does the figure have?
Answer: ____________________

How many vertices does the figure have?
Answer: ____________________

How many edges does the figure have?
Answer: ____________________
1. Mrs. Kern flew 742 miles in her helicopter in 2 days. She flew 378 miles the first day. How many miles did Mrs. Kern fly the second day?
   - A. 1,120 miles
   - B. 362 miles
   - C. 364 miles
   - D. 1,106 miles

2. Tyler weighs 45 pounds more than Ben. Which of these shows how much Tyler and Ben could weigh?
   - F. Tyler 142, Ben 187
   - G. Tyler 140, Ben 187
   - H. Tyler 187, Ben 140
   - J. Tyler 187, Ben 142

3. The table below shows the number of laps each grade ran during P.E.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Laps</th>
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</thead>
<tbody>
<tr>
<td>Third</td>
<td>43</td>
</tr>
<tr>
<td>Fourth</td>
<td>39</td>
</tr>
<tr>
<td>Fifth</td>
<td>62</td>
</tr>
</tbody>
</table>

   How many more laps did fifth grade run than third grade?
   - A. 23
   - B. 19
   - C. 21
   - D. 105

4. Mr. King had 159 cows and 25 horses at the Bar-Z Ranch. He sold 67 cows to his brother. Then he bought 36 more cows. How many cows did Mr. King have then?
   - F. 153
   - H. 92
   - G. 128
   - J. 262

5. Rashad and his friends had a video game contest. Rashad recorded the number of points each friend scored on their favorite video game in the table below.

<table>
<thead>
<tr>
<th>Name</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rashad</td>
<td>692</td>
</tr>
<tr>
<td>Leon</td>
<td>348</td>
</tr>
<tr>
<td>Jack</td>
<td>277</td>
</tr>
</tbody>
</table>

   Which of the following best describes the points in Rashad’s table?
   - A. Leon scored 61 more points than Jack.
   - B. The sum of all points was 1,217.
   - C. Rashad scored 57 more points than the combined scores of Leon and Jack.
   - D. Leon scored 344 fewer points than Rashad.

6. Randy has 216 more stickers than Parker. Connally has 194 fewer stickers than Randy. Parker has 645 stickers. The boys donated all their stickers to the after-school tutoring program. How many total stickers did the boys donate?
   - F. 1,055
   - G. 2,173
   - H. 1,309
   - J. 1,957
1. Which of the following is a polygon?
   - A
   - C
   - B
   - D

2. Which polygon is an octagon?
   - A
   - B
   - C
   - D

3. Which figure below best represents a pyramid?
   - A
   - B
   - C
   - D

4. Which figure does NOT have vertices?
   - A
   - C
   - B
   - D
1. Which shape is a pentagon?
   - A
   - B
   - C
   - D

2. How many vertices does this triangle have?
   - A 6
   - B 3

3. Which shape best represents a cube?
   - A
   - B
   - C
   - D

4. Dan traced the bottom of this cone.
   - A Circle
   - B Square
   - C Triangle
   - D Rectangle
1. Use the clues below to name the mystery shape.
   - I am a three-dimensional figure.
   - I have 3 faces shaped like rectangles and 2 faces shaped like triangles.
   - The number of my vertices is the same as the number of sides on a hexagon.
   - I have the same number of edges as $14 - 5 = \Box$.

What shape could I be?  **Answer:** ________________________________

2. Mindy drew a rectangle and then drew some line segments as shown.
   Using different colors of markers or crayons, trace 4 different polygons you can find in Mindy’s drawing. Write the names of the polygons in the blank spaces.

   1. __________________
   2. __________________
   3. __________________
   4. __________________

Mrs. Pope asked her students to draw a polygon. Logan drew the shape below.

Was Logan correct? ___________ Explain your answer.
**homework**

1. Which of these shapes best represents a pentagon?
   - A
   - B
   - C
   - D

2. How many vertices does this square have?
   - A 3
   - B 4
   - C 5
   - D 10

3. Which figure below has 9 edges?
   - A
   - B
   - C
   - D

4. Which shape is most like a drum?
   - A Cylinder
   - B Cube
   - C Circle
   - D Square

**Parent Activities**

1. Play “I Spy” with your child. Find shapes in the room and give clues about the shapes. For a tissue box, the clue might be, “I spy a gray rectangular prism.” For an item in the fruit bowl, the clue might be, “I spy an orange sphere.”

2. Have your child cut shapes from paper. Then have him/her make a picture such as a robot, a flower, or an imaginary creature using the shapes.
1 Sugar and Spice Candy Shoppe sold 547 jawbreakers on Monday and 468 jawbreakers on Tuesday. How many jawbreakers were sold on those 2 days? Show your work.

Answer: ________

2 Rolando was getting ready for school. It took him 24 minutes to shower, 15 minutes to get dressed, and 18 minutes to eat breakfast. How many minutes did it take Rolando to get ready for school? Show your work.

Answer: ________

3 Gerald is reading a book that is 251 pages long. He must read 24 more pages to finish the book. What is the total number of pages that Gerald has read so far? Show your work.

Answer: ________

4 Mr. Kilgore had 73 yards of wire. He used 33 yards to fix the fence. He then used 28 yards to fix the gate. How many yards of wire did Mr. Kilgore have after finishing both jobs? Show your work.

Answer: ________

5 Joel worked to earn money to buy video games. The table below shows the amount of money he earned.

<table>
<thead>
<tr>
<th>Day of Week</th>
<th>Amount of Money</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday</td>
<td>$11</td>
</tr>
<tr>
<td>Friday</td>
<td>$15</td>
</tr>
<tr>
<td>Saturday</td>
<td>$17</td>
</tr>
</tbody>
</table>

If Joel bought 2 video games that cost $20 each, how much money did he have left? Show your work.

Answer: ________

6 August, Rafael, and Orlando collect baseball cards. August has 857 cards in his collection. Rafael has 153 fewer baseball cards than August but 228 more cards than Orlando. How many baseball cards does Orlando have? Show your work.

Answer: ________
1. Mrs. Kern flew 742 miles in her helicopter in 2 days. She flew 378 miles the first day. How many miles did Mrs. Kern fly the second day?
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   - B 362 miles
   - C 364 miles
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   - F 1,055
   - G 2,173
   - H 1,309
   - J 1,957
1. Ms. Prieto made a total of 272 cookies for 2 different grade levels at school. She gave 143 cookies to the third graders and the rest to the fourth graders. How many cookies did Ms. Prieto give to the fourth graders?
   A. 129
   B. 131
   C. 415
   D. 417

2. Desiree has a collection of 384 nickels. She has 165 of her nickels in a bag. The rest of her nickels are in a bank. How many nickels are in the bank?
   A. 549
   B. 221
   C. 219
   D. 381

3. Mr. Mandrel had 163 chapter books. He gave 125 books to the students in his class. A friend gave him 45 more books. How many books did Mr. Mandrel have then?
   Record your answer in the boxes below. Then fill in the bubbles. Be sure to use the correct place value.

4. The table below shows how many reading points the third-grade classes at Freestone Elementary earned last month.

<table>
<thead>
<tr>
<th>Teacher</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Sosa</td>
<td>276</td>
</tr>
<tr>
<td>Miss Landers</td>
<td>?</td>
</tr>
<tr>
<td>Mrs. Bosque</td>
<td>314</td>
</tr>
</tbody>
</table>

Miss Landers’ class earned more points than Mr. Sosa’s class but fewer points than Mrs. Bosque’s class. Which could be the total number of points earned by the third grade last month?
   A. 307
   B. 873
   C. 905
   D. 590

5. The sum of two numbers is 621. The difference of the two numbers is 109. Which could be the two numbers?
   A. 189 and 432
   B. 397 and 224
   C. 365 and 256
   D. 401 and 220

6. Mr. Reich travels to and from work 5 days each week. If he drives his car, his weekly costs are $96 for gasoline, $18 for tolls, and $88 for parking. If he rides the bus, he pays $87 in bus fare and $58 for taxis. How much money can Mr. Reich save each week by riding the bus to work?
   A. $202
   B. $57
   C. $145
   D. $347
1. To finish the race at Thunder Alley Racetrack, drivers must drive 500 miles. Mr. Umber has 326 more miles to drive. What is the total number of miles that Mr. Umber has driven so far?
   - 526 miles
   - 826 miles
   - 374 miles
   - 174 miles

2. Mr. Dakota had a box of 152 paper clips. He used 72 paper clips and then bought another box of 225 paper clips. How many paper clips did Mr. Dakota have then?
   - 80
   - 305
   - 449
   - 73

3. A coffee can was filled with buttons. Myra guessed that the can contained 112 buttons, and Frances guessed that it contained 229 buttons. The can actually held 20 more buttons than the 2 guesses combined. How many buttons were in the can?
   - 363
   - 341
   - 361
   - 371

4. Lee has 482 marbles. He has 297 marbles in a jar and 42 marbles in his pockets. The rest of the marbles are in a box. How many marbles are in the box?
   - 339
   - 157
   - 255
   - Not here

5. A sign in the store window looked like the one below.
   
<table>
<thead>
<tr>
<th>Electronics Prices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
</tr>
<tr>
<td>Smart Phone..........</td>
</tr>
<tr>
<td>Netbook .............</td>
</tr>
<tr>
<td>Digital Camera......</td>
</tr>
</tbody>
</table>
   
   Which of the following best describes the prices on the sign?
   - A smart phone costs $43 less than a digital camera.
   - A netbook costs $827 more than a digital camera.
   - The difference in the prices of a smart phone and a netbook is $384.
   - The total cost for 1 of each item is $922.

6. Julie, Jeff, and Kelly collect coins. Julie has 149 fewer coins than Jeff. Jeff has 176 more coins than Kelly. Kelly has 153 coins. How many coins does Julie have?
   - 180
   - 27
   - 478
   - 4
1. Janet, Lamesha, Diane, and Arlene baked cookies for the school carnival. Lamesha baked a dozen less cookies than Diane. Diane baked 26 more cookies than Arlene. Janet baked 37 more cookies than Lamesha. Arlene baked 84 cookies. The girls placed all their cookies on the bake sale table. How many cookies did the girls place on the table?

Answer: __________

2. Margot thought of a mystery number. She added 104 to her number and then subtracted 67 from her number to get an answer of 423. What was Margot’s mystery number?

Answer: __________

3. Use the table below to answer questions 3 and 4.
In a recent election for sheriff, the citizens of Keystone County cast their votes for one of four candidates. The votes are shown on the table below.

<table>
<thead>
<tr>
<th>Candidate</th>
<th>Number of Votes</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Q. Smith</td>
<td>755</td>
</tr>
<tr>
<td>Leon Jefferson</td>
<td>874</td>
</tr>
<tr>
<td>Emily Lundy</td>
<td>869</td>
</tr>
<tr>
<td>Thomas Whitten</td>
<td>?</td>
</tr>
</tbody>
</table>

If a total of 3,007 votes were cast in this election, how many votes did Thomas Whitten receive?

Answer: __________

4. Emily Lundy asked for a recount, and 58 additional ballots were discovered. Of these 58 ballots, 27 were votes for Emily, 15 were votes for John Smith, and the remaining votes were for Leon Jefferson. What is the total number of votes Leon Jefferson received after the recount?

Answer: __________
Up and Down the Mountain

Play Up and Down the Mountain with a partner. Each pair of students needs 3 number cubes. Players use individual game boards. In turn, players roll the dice and use the 3 numbers shown to create a 3-digit number. Players repeat to form a second 3-digit number. Players may add or subtract the two numbers they create. The first problem is recorded and solved in box 1. Play passes to player 2 who follows the same procedure on his/her game board. As players climb up the mountain, each sum or difference must be larger than the sum or difference in the preceding box. As players climb down the mountain, each sum or difference must be smaller than the sum or difference in the preceding box. During play, if a player cannot arrive at a sum or difference that is larger or smaller, as needed, the player loses that turn. The first player to successfully climb up and down the mountain is the winner.

Describe a strategy you used when playing the game.

_______________________________________________________________________
_______________________________________________________________________
_______________________________________________________________________
_______________________________________________________________________
Application

1. Jeff and David are both in the third grade. Jeff weighs 4 pounds more than David. The two boys stepped on the bathroom scale together. The scale showed 136 pounds as their total combined weight.

   How much did Jeff weigh by himself? ______________

   How much did David weigh by himself? ______________

   Explain how you found your answer.
   ______________________________________________________
   ______________________________________________________
   ______________________________________________________

Analysis

2. Sue saved her allowance for several weeks so she could go shopping at the mall. On the day of her shopping trip, she put her money in her purse. At the mall, Sue purchased a blouse for $12 and a pair of jeans for $20. She also bought a hamburger and a soda for lunch. Her lunch cost $5. When she got home, Sue had $17 left in her purse. How much money did Sue have when she began her shopping trip?

   Answer: ______________

   Explain how you found your answer.
   ______________________________________________________
   ______________________________________________________
   ______________________________________________________

Journal

Write a word problem that can be solved using the following number sentence.

   \[ 100 + 56 - 35 = \] _______
1. The video store rented 345 videos Friday night and 727 videos Saturday night. How many videos were rented those 2 nights?
   - A. 382
   - B. 384
   - C. 1,072
   - D. 1,074

2. On Monday, Zippy Potato Chip Company had 92 pounds of potatoes to make potato chips. In the morning they used 32 pounds of potatoes. In the afternoon they used 41 pounds. How many pounds of potatoes did they have left at the end of the day? Record your answer in the boxes below. Then fill in the bubbles. Be sure to use the correct place value.

   Marjoe purchased a silver bracelet and a pearl ring. Flo purchased a birthstone necklace and a gold charm. How much more money did Marjoe spend on jewelry than Flo?
   - F. $7
   - G. $233
   - H. $226
   - J. $459

Parent Activities

1. Have your child give you a number sentence to solve simple problems such as, "If you have 5 toy cars and 6 toy trucks and your friend gives you 2 more toy cars, what number sentence would show how many toy cars you have now?" (5 + 2 = 7)

2. While sitting at a stoplight, use the things around you to ask your child math questions. "There are 4 cars and 1 truck at the light. How many more cars are at the light than trucks? What number sentence shows that?" (4 − 1 = 3)
1 The coach used a stopwatch to time Bo as he ran the 100-yard dash. Look at the stopwatch below.

How long did it take Bo to run the 100-yard dash?

Answer: ____________________________

2 At Chaucer Elementary School students who ride the bus are dismissed at the time shown on the clock below.

The remaining students are dismissed 15 minutes later. What time will it be in 15 minutes?

Answer: ____________________________

3 Joseph finished his homework at 5:30 P.M.

He started his homework 40 minutes earlier. At what time did Joseph start his homework?

Answer: ____________________________

4 There is a 5 hour time difference between Chicago, Illinois, and Honolulu, Hawaii, as shown on the clocks below.

Kaycee lives in Chicago. She wants to call her cousin who lives in Honolulu. What time in Chicago should Kaycee call for her cousin to receive the call at 8:00 P.M. in Honolulu?

Answer: ____________________________

5 Maddie started softball practice at the time shown below.

At practice, Maddie listened to her coach talk for a half hour and then practiced fielding the ball for 30 minutes. What time was Maddie’s softball practice over?

Answer: ____________________________

Words for the Wise

• A.M.
• elapsed time
• half hour
• hour
• minute
• P.M.
• quarter hour
• second

Nothing to it!
1. Astrid must go to bed at 9:30 P.M. each night. On Saturday nights her parents allow her to stay up an extra 1 hour 45 minutes. What time must Astrid go to bed on Saturday night?

   A) 10:30 P.M.  
   B) 11:00 P.M.  
   C) 11:15 P.M.  
   D) 11:45 P.M.

2. Beckham finished soccer practice at 4:15 P.M. as shown on the clock below. If Beckham practiced for $2\frac{1}{2}$ hours, at what time did practice begin?

   A) 2:45 P.M.  
   B) 2:30 P.M.  
   C) 2:15 P.M.  
   D) 1:45 P.M.

3. Math class began at 10:30. The students completed a facts drill sheet the first 10 minutes. The teacher taught for 15 minutes, and the students worked in math groups for a half hour before going to lunch. At what time did the students go to lunch?

   A) 10:55  
   B) 11:00  
   C) 11:15  
   D) 11:25

4. Mrs. Perry used a stopwatch to time Sophie as she read a list of words. Look at the stopwatch below. How many seconds did it take Sophie to read the words?

   A) 30 seconds  
   B) 33 seconds  
   C) 35 seconds  
   D) Not here

5. Darnell and his family watched a movie from 1:05 P.M. to 3:20 P.M., as shown on the clocks below. How long was the movie?

   A) 3 hours 15 minutes  
   B) 2 hours 15 minutes  
   C) 4 hours 25 minutes  
   D) 2 hours 25 minutes
1. At 11:15 A.M. Parsia completed his chores. He worked for 1 hour 45 minutes. What time did Parsia begin his chores?

- A) 1:00 P.M.
- B) 9:00 A.M.
- C) 9:15 A.M.
- D) 9:30 A.M.

2. Felicia arrived at the mall at 10:15 A.M. She spent a half hour trying on shoes, 45 minutes in the music store, and a quarter hour in the food court before leaving the mall. What time did Felicia leave the mall?

- A) 10:45 A.M.
- B) 11:15 A.M.
- C) 11:45 A.M.
- D) 12:15 P.M.

3. Carter and Chase started watching a basketball game at 8:15 P.M. The game lasted 2 hours 55 minutes. Which clock shows the time the basketball game ended?

- A)
- B)
- C)
- D)

4. The ham Mrs. Thomas is preparing for dinner needs to cook for 2 1/2 hours. If dinner is served at 7:00 P.M., what time should Mrs. Thomas begin cooking the ham?

- A) 4:30 P.M.
- B) 5:00 P.M.
- C) 5:30 P.M.
- D) 9:30 P.M.

5. The table below shows the times buses leave Centerville for Madison and the length of time for each trip, depending on the number of stops along the way.

<table>
<thead>
<tr>
<th>Bus Number</th>
<th>Leave Centerville</th>
<th>Trip Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7:35 A.M.</td>
<td>45 minutes</td>
</tr>
<tr>
<td>2</td>
<td>7:40 A.M.</td>
<td>35 minutes</td>
</tr>
<tr>
<td>3</td>
<td>7:50 A.M.</td>
<td>40 minutes</td>
</tr>
<tr>
<td>4</td>
<td>7:55 A.M.</td>
<td>45 minutes</td>
</tr>
</tbody>
</table>

Mr. Johnson takes the bus to work in Madison. He arrived in Madison at the time shown on the clock below.

Which bus did Mr. Johnson take?

- A) Bus 1
- B) Bus 2
- C) Bus 3
- D) Bus 4
1. Lisa began jogging at 2:45 P.M. and finished at 3:20 P.M. How many minutes did Lisa jog?

Record your answer and fill in the bubbles below. Be sure to use the correct place value.

How long could Jen hold her breath?

- 50 seconds
- 57 seconds
- 55 seconds
- 60 seconds

2. Marianna started swim practice at 4:45 P.M. and finished 2 hours 20 minutes later. At what time was swim practice over?

- 7:00 P.M.
- 6:05 P.M.
- 6:45 P.M.
- 7:05 P.M.

3. The Fernandez family finished eating dinner at the time shown on the clock below. It took them a half hour to eat.

What time did they begin eating dinner?

- 6:30 P.M.
- 6:55 P.M.
- 5:55 P.M.
- 7:55 P.M.

4. Jen’s dad used the stopwatch below to time how long Jen could hold her breath under water.

5. Jeremiah began watching a football game at 7:00 P.M. The game lasted 3 hours 15 minutes. What time was the game over?

6. Ingrid woke up at 6:55 A.M. She spent 25 minutes taking a bath and getting dressed. She took 15 minutes to eat her breakfast. She took another 10 minutes walking to school. What time did Ingrid arrive at school?

- 7:55 A.M.
- 7:45 A.M.
- 7:35 A.M.
- 7:50 A.M.
Analysis

1. Taffy eats dinner at 6:00 P.M. She gets home from school at 3:30 P.M.

Before dinner, Taffy practices flute for 1 hour, cleans her room for a half hour, and plays video games for 45 minutes. Does Taffy have at least a quarter hour to read her library book before dinner?

Answer: ________________________

Explain your answer.

______________________________________________________________________________

______________________________________________________________________________

Analysis

2. Stephen went to the dentist on Monday. His next appointment was 100 days later.

What day of the week was Stephen’s next appointment? ______________________________

Explain how you found your answer.

______________________________________________________________________________

______________________________________________________________________________

Journal

Explain how elapsed time is important to a baker.
1. There is a 3 hour time difference between Atlanta, Georgia, and Portland, Oregon, as shown on the clocks below.

An important news story was broadcast nationwide at 2:45 P.M. in Atlanta, Georgia. What time was it in Portland, Oregon, when the news story was broadcast?

A 11:45 P.M.  
B 12:45 A.M.  
C 11:45 A.M.  
D 12:45 P.M.

2. Benita used the stopwatch below to time a video clip.

How long was the video clip?

A 1 minute  
B 20 seconds  
C 24 seconds  
D 26 seconds

3. Jasmine went swimming with her friend at 2:35 P.M. They swam for 2 hours 45 minutes. What time did they stop swimming?

A 5:20 P.M.  
B 3:45 P.M.  
C 5:15 P.M.  
D 4:20 P.M.

4. Brooklyn’s baseball game started at 7:05 P.M. and ended at 8:40 P.M. How long was Brooklyn’s baseball game?

A 35 minutes  
B 1 hour 30 minutes  
C 1 hour 45 minutes  
D 1 hour 35 minutes

Parent Activities

1. While traveling, ask your child questions about time such as, “It is 3:45. It will take 35 minutes to get to the park. What time will it be when we get there?”

2. When cooking, have your child determine the time food will be ready based on the starting time or determine the starting time based on the amount of time something needs to cook.

3. Have your child use a stopwatch to time various activities.
1. Edmund is the goalie on his hockey team. So far this season, he has blocked 27 out of 36 shots. Based on this information, what is the most reasonable prediction of the number of shots Edmund will block out of the next 16 goal attempts?

Answer: _______________________________

Use the table below to answer questions 2 and 3.

The table below shows the results of 24 spins Taylor made with a game spinner.

<table>
<thead>
<tr>
<th>Color</th>
<th>Number of Spins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>9</td>
</tr>
<tr>
<td>Green</td>
<td>4</td>
</tr>
<tr>
<td>Blue</td>
<td>6</td>
</tr>
<tr>
<td>Yellow</td>
<td>5</td>
</tr>
</tbody>
</table>

2. Based on the results, what is the probability that Taylor’s spinner will NOT land on red on his next spin?

Answer: _______________________________

3. Taylor spins 12 more times. Based on the results in the table, what is the most reasonable prediction of the number of times Taylor’s spinner will land on green in his 12 additional spins?

Answer: _______________________________

4. Robert and his brother play video games. The table below shows the outcomes of Robert’s games last week.

<table>
<thead>
<tr>
<th>Results</th>
<th>Number of Games</th>
</tr>
</thead>
<tbody>
<tr>
<td>Won</td>
<td>7</td>
</tr>
<tr>
<td>Lost</td>
<td>3</td>
</tr>
<tr>
<td>Tied</td>
<td>2</td>
</tr>
</tbody>
</table>

Robert and his brother played 36 more games during the remainder of the month. Based on the results in the table, what is a reasonable prediction of the number of games Robert will win out of the 36 games?

Answer: _______________________________

5. The table below shows Eric’s test scores in his science class. He will take his final test tomorrow.

<table>
<thead>
<tr>
<th>Type of Test</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Circuits</td>
<td>100</td>
</tr>
<tr>
<td>Forms of Energy</td>
<td>85</td>
</tr>
<tr>
<td>Properties of Matter</td>
<td>95</td>
</tr>
<tr>
<td>Insulators and Conductors</td>
<td>80</td>
</tr>
</tbody>
</table>

Based on his previous test scores, what is the probability that Eric will score above 90 points on his final test?

Answer: _______________________________
1. Jonathan plays basketball on his school team. So far this season, he has made 10 of 15 free throws. Based on this record, what is the most reasonable prediction of the number of free throws Jonathan will make in his next 30 attempts?
   - A 12
   - B 15
   - C 20
   - D 25

2. Based on these results, which is the most reasonable prediction of the number of votes Alma will have received when all 30 class members have voted?
   - A 30
   - B 14
   - C 21
   - D 7

3. Based on the chart above, which is the most reasonable prediction of the number of votes that will NOT be for Pat when all 30 class members have voted?
   - A 5
   - B 10
   - C 15
   - D 20

4. Use the table below to answer questions 4 - 6. The table below shows the number of goals Cameron scored during his last 6 soccer games.

<table>
<thead>
<tr>
<th>Opponent</th>
<th>Number of Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colts</td>
<td>1</td>
</tr>
<tr>
<td>Eagles</td>
<td>2</td>
</tr>
<tr>
<td>Lightning</td>
<td>0</td>
</tr>
<tr>
<td>Lions</td>
<td>3</td>
</tr>
<tr>
<td>Chargers</td>
<td>2</td>
</tr>
<tr>
<td>Ravens</td>
<td>3</td>
</tr>
</tbody>
</table>

   Based on his goals scored in previous games, what is the probability of Cameron scoring more than 2 goals in his next game?
   - A \( \frac{2}{3} \)
   - B \( \frac{1}{2} \)
   - C \( \frac{1}{3} \)
   - D \( \frac{5}{6} \)

5. According to the table, what is the probability of Cameron scoring less than 3 goals in his next game?
   - A \( \frac{1}{2} \)
   - B \( \frac{2}{3} \)
   - C \( \frac{5}{6} \)
   - D \( \frac{1}{6} \)

6. Based on his scoring history, what is the probability of Cameron NOT scoring in his next game?
   - A \( \frac{1}{6} \)
   - B \( \frac{1}{3} \)
   - C \( \frac{5}{6} \)
   - D \( \frac{1}{3} \)
Use the table below to answer questions 1 - 3.

Sam, Eli, and Rashawn played a game of darts. The table below shows the number of bull’s-eyes the players landed out of 27 throws each.

<table>
<thead>
<tr>
<th>Dart Game</th>
<th>Player</th>
<th>Number of Bull's-eyes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sam</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Eli</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Rashawn</td>
<td>21</td>
</tr>
</tbody>
</table>

1. Based on the information in the table, which is the most reasonable prediction of the number of bull’s-eyes Rashawn will make out of his next 18 attempts?
   - A. 7
   - B. 14
   - C. 9
   - D. 18

2. Based on the information in the table, which is the most reasonable prediction of the number of bull’s-eyes Sam will make out of his next 54 attempts?
   - A. 30
   - B. 36
   - C. 27
   - D. 48

3. Based on the information in the table, which is the most reasonable prediction of the number of bull’s-eyes Eli will make out of his next 81 attempts?
   - A. 22
   - B. 63
   - C. 36
   - D. 33

4. Mr. Quinn discovered that in his last shipment of 16 cartons of eggs, 1 carton contained a cracked egg. Based on this information, what is the most reasonable prediction of the number of cartons that will contain a cracked egg in a shipment of 48 cartons?
   - A. 3
   - B. 4
   - C. 6
   - D. 12

Use the table below to answer questions 5 and 6.

The table shows the 8 A.M. temperature readings at Hilton Elementary during a four-day period.

<table>
<thead>
<tr>
<th>Daily Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day</td>
</tr>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>Tuesday</td>
</tr>
<tr>
<td>Wednesday</td>
</tr>
<tr>
<td>Thursday</td>
</tr>
</tbody>
</table>

5. Based on the table, what is the probability that the temperature reading on Friday will be above 35°F?
   - A. 3/4
   - B. 1/2
   - C. 1/4
   - D. 1/5

6. What is the probability that the temperature reading will be 30°F or below?
   - A. 1/2
   - B. 2/3
   - C. 1/4
   - D. 1/5
1. The table shows the results of 32 spins Alton made with a spinner.

<table>
<thead>
<tr>
<th>Shape</th>
<th>Number of Spins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cube</td>
<td><strong>III</strong></td>
</tr>
<tr>
<td>Cone</td>
<td><strong>III</strong></td>
</tr>
<tr>
<td>Sphere</td>
<td><strong>II</strong></td>
</tr>
<tr>
<td>Cylinder</td>
<td><strong>III</strong></td>
</tr>
</tbody>
</table>

Which is the most reasonable prediction of the number of times the spinner will land on cone in the next 8 spins?
- A. 4
- B. 7
- C. 3
- D. 1

2. Helio rolled a number cube 36 times. The table below shows the number of times Helio rolled each number on the number cube.

<table>
<thead>
<tr>
<th>Result of Roll</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Rolls</td>
<td>4</td>
<td>6</td>
<td>5</td>
<td>8</td>
<td>7</td>
<td>6</td>
</tr>
</tbody>
</table>

Based on these results, which is the most reasonable prediction of the number of times Helio will roll a 6 in the next 12 rolls?
- A. 3
- B. 4
- C. 6
- D. 2

Use the table below to answer questions 3 – 5.

Kevin, Sheldon, Bruce, and Paul play on the same basketball team. The table below shows the points per game each player scored during the last 3 games.

<table>
<thead>
<tr>
<th>Name of Player</th>
<th>Game 1 Points</th>
<th>Game 2 Points</th>
<th>Game 3 Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kevin</td>
<td>10</td>
<td>13</td>
<td>8</td>
</tr>
<tr>
<td>Sheldon</td>
<td>21</td>
<td>14</td>
<td>19</td>
</tr>
<tr>
<td>Bruce</td>
<td>6</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>Paul</td>
<td>17</td>
<td>25</td>
<td>22</td>
</tr>
</tbody>
</table>

3. Based on the data, which player is most likely to score more than 20 points in the next game?
- A. Kevin
- B. Paul
- C. Bruce
- D. Sheldon

4. What is the probability of Bruce scoring more than 15 points in the next game?
- F. $\frac{1}{2}$
- G. $\frac{2}{3}$
- H. $\frac{6}{5}$
- J. $\frac{1}{3}$

5. Based on the data above, which player is most likely to score less than 15 points in the next game?
- A. Bruce
- B. Sheldon
- C. Kevin
- D. Paul
1. Marty conducted a survey of the 30 students in his class to determine students’ favorite vegetables. His results are shown on the chart to the right.

If Marty goes to lunch and asks the first student he sees in the cafeteria what his/her favorite vegetable is, what do you predict the student will say? Answer: 

If there are 100 students in the cafeteria and Marty conducts this same survey, how many students do you predict would choose potatoes? Answer: 

<table>
<thead>
<tr>
<th>Type of Vegetable</th>
<th>Number of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potatoes</td>
<td>15</td>
</tr>
<tr>
<td>Green beans</td>
<td>5</td>
</tr>
<tr>
<td>Corn</td>
<td>7</td>
</tr>
<tr>
<td>Carrots</td>
<td>3</td>
</tr>
</tbody>
</table>

2. The table on the right shows the number of points out of 100 possible points scored by four competitors in the local Mathletics Competition. One of the judges discovered an error in the calculations and awarded Karen 15 more points.

The students plan to compete in the regional competition where the total number of possible points is 200. Based on the adjusted scores, what is a reasonable prediction of Karen’s score at the regional competition? Explain how you found your answer.

Answer: 

<table>
<thead>
<tr>
<th>Competitor</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shontay</td>
<td>75</td>
</tr>
<tr>
<td>Karen</td>
<td>67</td>
</tr>
<tr>
<td>Andrew</td>
<td>54</td>
</tr>
<tr>
<td>Raj</td>
<td>83</td>
</tr>
</tbody>
</table>

3. Janell conducted a favorite cookie survey of 45 people in the grocery store. She found that 36 people favored chocolate chip cookies and the rest favored sugar cookies. Based on these results, what is a reasonable prediction of how many people out of 150 can be expected to prefer sugar cookies? Explain your answer.

Answer: 

4. The fifth grade is voting to elect a representative to the Principal’s Council. The students in Mrs. Turner’s class have already voted. The results in Mrs. Turner’s class were compiled and are shown in the table.

One student in Mrs. Turner’s class was absent the day they voted. She voted the next day, and Mrs. Turner added to the votes for Orlando on the chart. Based on the adjusted votes, what is a reasonable prediction of the number of votes Francesca will receive when 100 students have voted? Explain how you found your answer.

Answer: 

<table>
<thead>
<tr>
<th>Name</th>
<th>Votes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prathit</td>
<td>3</td>
</tr>
<tr>
<td>Orlando</td>
<td>6</td>
</tr>
<tr>
<td>Francesca</td>
<td>12</td>
</tr>
<tr>
<td>Celie</td>
<td>2</td>
</tr>
</tbody>
</table>
motivation station

Play Probability Path with a partner. Each pair of players uses one red-yellow 2-color counter, one red marker or crayon, and one yellow marker or crayon. Decide which player will be red and which player will be yellow. In turn, players flip the counter. If the counter lands yellow side up, the yellow player shades the first square on the yellow path. Likewise, if the counter lands red side up, the red player shades the first square on the red path. Continue playing until one player reaches the end square.

Probability Path

RED

START

YELLOW

START

END

END

How many reds were tossed? ______________________________
How many yellows were tossed? ____________________________
How many total tosses in the game? ________________________
What fraction of the tosses were red? ______________________
What fraction of the tosses were yellow? ____________________

Explain how these results compare to the probability of tossing your color on a 2-color counter.

_______________________________________________________________________________
_______________________________________________________________________________
Synthesis

1. Mario created a spinner with 4 sections labeled red, blue, yellow, and green. He recorded the results of 48 spins on the table below.

<table>
<thead>
<tr>
<th>Color</th>
<th>Number of Spins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>6</td>
</tr>
<tr>
<td>Blue</td>
<td>24</td>
</tr>
<tr>
<td>Yellow</td>
<td>12</td>
</tr>
<tr>
<td>Green</td>
<td>6</td>
</tr>
</tbody>
</table>

On the circle, sketch a reasonable prediction of Mario’s spinner. Justify your reasoning.

Analysis

2. Andrea rolled two number cubes and found the sum. She rolled a total of 72 times and compiled her results on the table below.

<table>
<thead>
<tr>
<th>Sum</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>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Times Rolled</td>
<td>1</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>12</td>
<td>16</td>
<td>7</td>
<td>8</td>
<td>5</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

Based on the information in the table, what is a reasonable prediction of the number of times 7 will be the sum if Andrea rolls the number cubes a total of 450 times? Justify your answer.

Journal

In the problem above, why do you think a sum of 7 was rolled more times than the other sums?
Use the table below to answer questions 1 and 2.
Monique conducted a math experiment with paper cups. She tossed 50 cups and recorded the landing position of each cup. The table below shows her results.

<table>
<thead>
<tr>
<th>Cup Tossing</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right side up</td>
<td>6</td>
</tr>
<tr>
<td>Upside down</td>
<td>12</td>
</tr>
<tr>
<td>On the side</td>
<td>32</td>
</tr>
</tbody>
</table>

1. Based on the information in the table, what is the most reasonable prediction of the number of cups that will land right side up in the next 25 attempts?
   - A 3
   - B 10
   - C 5
   - D 9

2. Based on the information in the table, what is the most reasonable prediction of the number of cups that will land on the side in the next 75 attempts?
   - A 16
   - B 24
   - C 48
   - D 52

Use the table below to answer questions 3 and 4.
The table below shows the statistics of 4 batters on the Red Sox softball team based on 14 times at bat.

<table>
<thead>
<tr>
<th>Batters’ Statistics</th>
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</thead>
<tbody>
<tr>
<td>Player</td>
</tr>
<tr>
<td>Brenda</td>
</tr>
<tr>
<td>Sherry</td>
</tr>
<tr>
<td>Carla</td>
</tr>
<tr>
<td>Lisa</td>
</tr>
</tbody>
</table>

3. Based on the information in the table, which is the most reasonable prediction of the number of home runs Carla will hit out of her next 7 times at bat?
   - A 1
   - B 2
   - C 4
   - D 8

4. According to the data, what is the probability of Brenda striking out during her next time at bat?
   - A \( \frac{1}{2} \)
   - B \( \frac{3}{5} \)
   - C \( \frac{1}{14} \)
   - D \( \frac{1}{7} \)

Parent Activities

1. Put several pairs of various colored socks in a drawer. Help your child note the probability of selecting each color. Then turn off the lights and select a pair of socks. Record the color. Return the socks to the drawer and repeat the activity 5 times. Keep track of the outcomes. Compare outcomes to the probabilities.

2. Arrange your child’s shirts according to color. Relate each category as a fraction. For example, 5 of the 12 shirts are blue \( \left( \frac{5}{12} \right) \) are blue, 3 of the 12 shirts are yellow \( \left( \frac{3}{12} \right) \) are yellow. Have your child predict the number of blue shirts if there were twice as many shirts.
The Motivation Math Teacher Edition is packed with instructional strategies to promote sound mathematics instruction. Each TEKS-based unit helps teachers focus on effective teaching of the TEKS, lesson planning, and time management. The teacher edition includes vocabulary words, suggestions for manipulatives to teach skills, literature suggestions, and hands-on activities.
**Vocabulary**

- certain*
- event
- experiment
- fraction*
- impossible
- outcome*
- possible outcomes*
- prediction
- probability*
- results
- survey

* Included in Math Vocabulary Adventure Card Set

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**Activities**

1. Show students three spinners. Have them predict which spinner will spin a 1 most often. Confirm predictions by spinning each spinner 20 times.

   ELPS (c)1.C, (c)1.E, (c)1.H, (c)2.E, (c)2.I, (c)3.D, (c)4.G

2. “Wheel of Fortune” states that the most commonly used letters in the English language are R, S, T, L, N, and E. Have students design a plan to prove or disprove this statement. (Students can use a class novel, a poem, the newspaper, etc. to test the statement.) Guide the students in developing a plan for collecting a sample of data and then organizing the data into a frequency chart.

   ELPS (c)1.C, (c)1.E, (c)1.H, (c)2.E, (c)2.I, (c)3.D, (c)4.D, (c)4.G, (c)5.B

3. Using a 1-6 number cube, students predict which number they think will be rolled most often. Partners roll a number cube 30 times and record the number of times each number was rolled. Guide them to the conclusion that each number has an equal chance of being rolled (\( \frac{1}{6} \) of the time). Compare this statement with the actual results. Variation: Have students predict which sum will be rolled most when tossing 2 number cubes. Have partners toss two cubes 50 times and record the results on a chart.

   ELPS (c)1.C, (c)1.E, (c)1.H, (c)2.E, (c)2.I, (c)3.D, (c)3.E, (c)4.D, (c)4.G, (c)5.B

4. Have students determine the possible outcomes of tossing a paper cup into the air. Guide them to the three outcomes (bottom down, top down, on its side). Students will predict which way the cup will most often land. Experiment and record the results of 25 tosses. Collect the data and record on a graphic organizer. Use the data to make predictions.

---

**Answer Key with Process TEKS Alignment**

- **Independent Practice - Page 173**
  - Question 1: 1, 2, 3, 4, 5, 6, 7, 8
  - Question 2: 1, 2, 3, 4, 5, 6, 7, 8
  - Question 3: 1, 2, 3, 4, 5, 6, 7, 8
  - Question 4: 1, 2, 3, 4, 5, 6, 7, 8

- **Assessment - Page 174**
  - Question 1: 1, 2, 3, 4, 5, 6, 7, 8
  - Question 2: 1, 2, 3, 4, 5, 6, 7, 8
  - Question 3: 1, 2, 3, 4, 5, 6, 7, 8
  - Question 4: 1, 2, 3, 4, 5, 6, 7, 8

- **Extended Practice - Page 175**
  - Question 1: 1, 2, 3, 4, 5, 6, 7, 8
  - Question 2: 1, 2, 3, 4, 5, 6, 7, 8
  - Question 3: 1, 2, 3, 4, 5, 6, 7, 8

- **Critical Thinking - Page 176**
  - Question 1: 1, 2, 3, 4, 5, 6, 7, 8
  - Question 2: 1, 2, 3, 4, 5, 6, 7, 8

- **Homework - Page 179**
  - Question 1: 1, 2, 3, 4, 5, 6, 7, 8

---

**ELPS (c)4.D**

- Probability and Statistics
- Use experimental results to make predictions.

---

**Probability and Statistics**

(Correlated to Student Edition pages 173-180)

- **Reporting Category 5:**
  The student will demonstrate an understanding of probability and statistics.

- **TEKS:**
  The student describes and predicts the results of a probability experiment. ([5.12])

**5.12B: Readiness Standard**

Use experimental results to make predictions.

- **Manipulatives:**
  Spinners, number cubes, paper cups, counters, playing cards, attribute blocks

- **Literature:**
  *Probably Pistachio* by Stuart J. Murphy

  ELPS (c)2.F, (c)2.G, (c)2.H, (c)2.I

---

**ELPS (c)4.D**

- Use experimental results to make predictions.
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<tr>
<td>101+ charts</td>
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<tr>
<td>100+ charts</td>
<td>Call for Pricing</td>
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</table>

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<td>Residents outside the contiguous 48 states, please call 1-800-585-5258 for shipping and handling charges.</td>
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- Check/Money Order
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  - Master Card
  - Discover
  - American Express

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