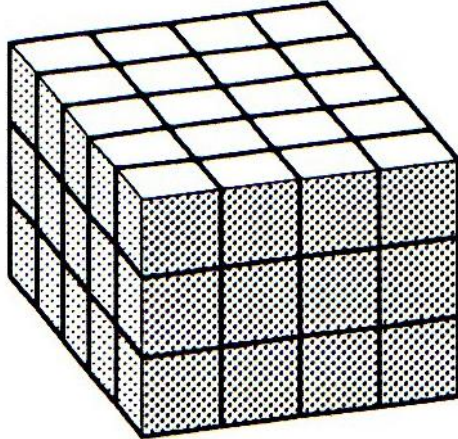


Sixth Grade Spirling Review

Week 1 of Fifth Six Weeks

Advanced Preparation: Spirling Review Cards (See Sixth Grade 3rd Six Weeks Spirling Review – 2 sheets per table group exclude the decimal)

Note: Record all work in your math journal.

<p>Day 1</p> <p>Spiraling review cards</p>	<p>Each table group will need a deck of Spiraling Review Cards.</p> <p>a) Draw two cards and arrange the cards to create an improper fraction. b) Transform each improper fraction to a mixed number. c) Order the mixed numbers from greatest to least.</p> <p>Example: $\frac{5}{3} = 1\frac{2}{3} \rightarrow 5 \div 3 = 1$ with a remainder of 2 = $1\frac{2}{3}$</p>
<p>Day 2</p>	<p>Jana saw the following rectangular prism on a math test. Her teacher asked her to find the volume.</p> <p>a) What method could Jana use to calculate the volume?</p> <div data-bbox="678 976 1133 1411" data-label="Image"></div>

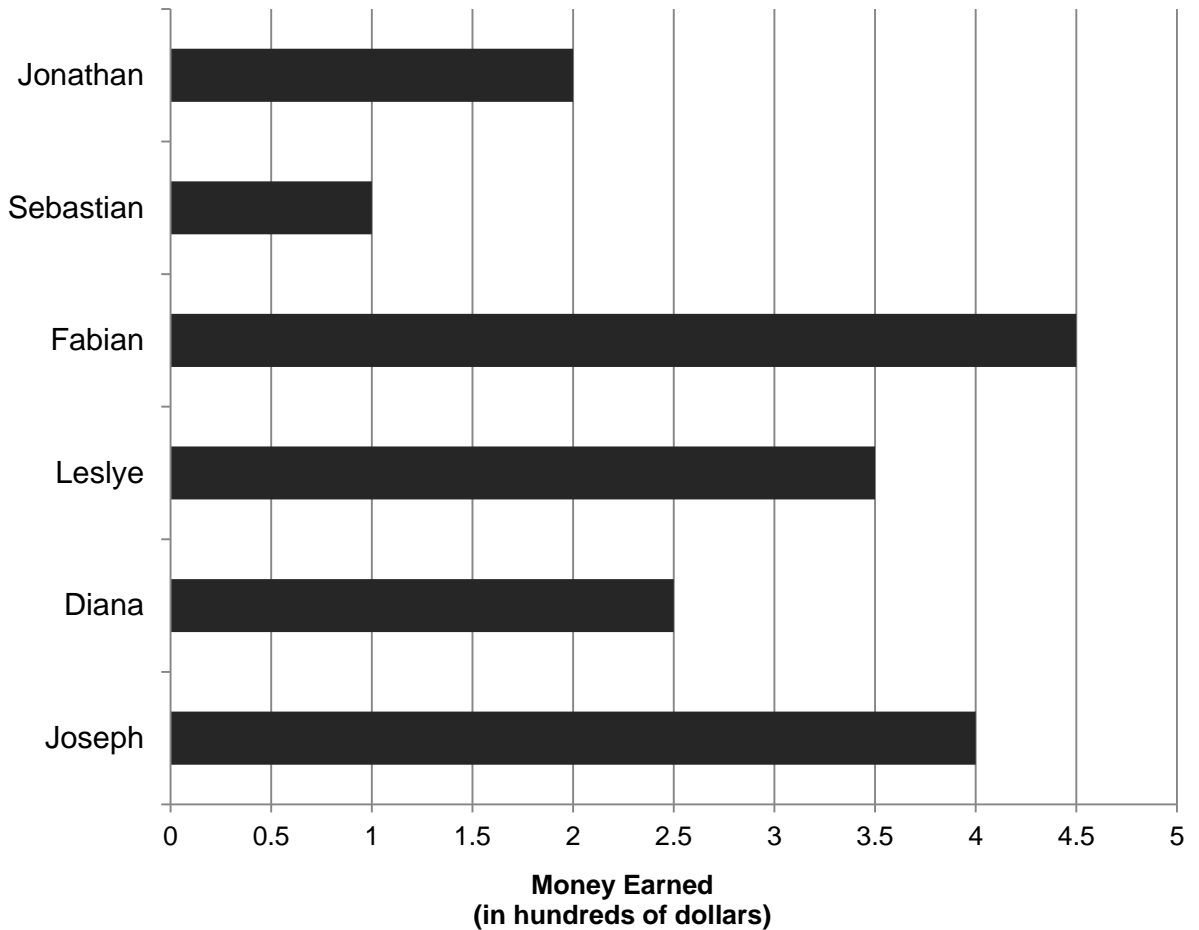
Sixth Grade Spiraling Review

Week 1 of Fifth Six Weeks (cont.)

Note: Record all work in your math journal.

Day 3

Money Earned from Part-Time Jobs




The graphical representation above displays data collected from several students at Memorial Middle School.

- How much more money did Joseph earn than Jonathan?
- Who earned the least amount of money?
- What is the difference between the amount that Diana and Sebastian earned?

Sixth Grade Spiraling Review

Week 1 of Fifth Six Weeks (cont.)

Note: Record all work in your math journal.

Day 4	<p>John Milton said his family spent more on food than on savings and rent combined.</p> <h3 style="text-align: center;">Milton Family Budget</h3> <div style="text-align: center;">  <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <caption>Milton Family Budget Data</caption> <thead> <tr> <th>Category</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Food</td> <td>33%</td> </tr> <tr> <td>Rent</td> <td>25%</td> </tr> <tr> <td>Misc.</td> <td>21%</td> </tr> <tr> <td>Clothes</td> <td>15%</td> </tr> <tr> <td>Savings</td> <td>6%</td> </tr> </tbody> </table> </div> <p>a) Is John's statement correct? Justify your response. b) What fraction of the budget is spent on rent? Justify your response. c) What fraction of the budget is spent on clothes? Justify your response.</p>	Category	Percentage	Food	33%	Rent	25%	Misc.	21%	Clothes	15%	Savings	6%
Category	Percentage												
Food	33%												
Rent	25%												
Misc.	21%												
Clothes	15%												
Savings	6%												
Day 5	<p>The following data represents the wind speed in miles per hour on various days throughout the winter time in Antarctica:</p> <div style="text-align: center; margin: 10px 0;"> <p>Wind Speeds (mph)</p> <table style="border-collapse: collapse; margin: 0 auto;"> <tr> <td style="padding-right: 10px;">4</td> <td style="border-left: 1px solid black; padding-left: 10px;">4 5</td> </tr> <tr> <td>6</td> <td style="border-left: 1px solid black; padding-left: 10px;">1 1 3</td> </tr> <tr> <td>7</td> <td style="border-left: 1px solid black; padding-left: 10px;">8</td> </tr> <tr> <td>8</td> <td style="border-left: 1px solid black; padding-left: 10px;">2 7 7</td> </tr> <tr> <td>10</td> <td style="border-left: 1px solid black; padding-left: 10px;">0 1 3</td> </tr> </table> </div> <p style="text-align: right; margin-right: 50px;">4 5 represents 45</p> <p>a) What are the minimum and maximum wind speeds recorded? b) How many wind velocities were recorded in the sixties? c) How many total wind speeds were recorded?</p>	4	4 5	6	1 1 3	7	8	8	2 7 7	10	0 1 3		
4	4 5												
6	1 1 3												
7	8												
8	2 7 7												
10	0 1 3												

Sixth Grade Spiraling Review

Week 2 of Fifth Six Weeks

Note: Record all work in your math journal.

Day 1	<p>a) Create both a line plot and a stem and leaf plot for the following set of data:</p> <p style="text-align: center;"><u>Points Scored in a Basketball Game</u> 14, 22, 21, 29, 8, 14, 18, 22, 18, 6, 34, 20, 14, 6, 8, 20</p>												
Day 2	<p>a) Create a pictograph that represents the following information:</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2">Varieties of Apples Found at the Grocery Store</th> </tr> </thead> <tbody> <tr> <td>Red Delicious</td> <td>45</td> </tr> <tr> <td>Granny Smith</td> <td>60</td> </tr> <tr> <td>Fuji</td> <td>20</td> </tr> <tr> <td>McIntosh</td> <td>35</td> </tr> <tr> <td>Golden Delicious</td> <td>55</td> </tr> </tbody> </table>	Varieties of Apples Found at the Grocery Store		Red Delicious	45	Granny Smith	60	Fuji	20	McIntosh	35	Golden Delicious	55
Varieties of Apples Found at the Grocery Store													
Red Delicious	45												
Granny Smith	60												
Fuji	20												
McIntosh	35												
Golden Delicious	55												
Day 3	<p>Randy is conducting an experiment on the growth of plant spores for his science class and has recorded the following heights of his plant over the last 10 days:</p> <p style="text-align: center;">1 in., 3 in., 3 in., 4 in., 5 in., 5 in., 7 in., 8 in., 8 in., 8 in.</p> <p>a) Identify and define the range, median, and mode of Randy's data.</p>												
Day 4	<p>Tristan researched the prices of several baseballs. These are the prices he found.</p> <p style="text-align: center;">\$4, \$9, \$8, \$4, \$18, \$7, \$6</p> <p>a) Use a model to find the mean price of a baseball.</p>												
Day 5	<p>a) Create a sketch of a circle graph to represent the following information on favorite flavors of pie.</p> <p style="text-align: center;"> Apple: 52% Cherry: 26% Pumpkin: 15% Pecan: 7% </p>												

Sixth Grade Spiraling Review

Week 3 of Fifth Six Weeks

Note: Record all work in your math journal.

Day 1

The following table shows grade averages for Mrs. Jones' class.

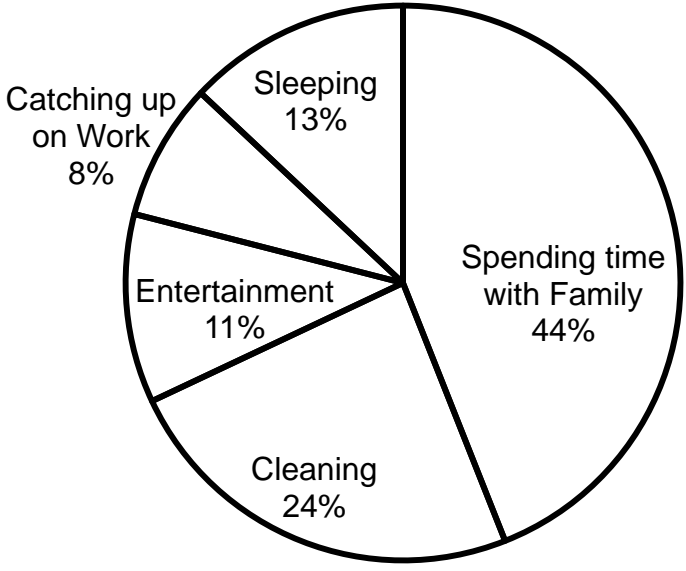
Student	Average
Bobby	78
Susie	85
Braden	74
Marcus	78
Mason	90
Jared	89
Sarah	95
Brody	93
Chloe	90
Justin	73
Mary	85
Carrie	77
Kris	83
Kylie	89
Chandler	78
Jennifer	92

- Create a line plot to represent this data.
- Find the median, mode, and range for the averages of Mrs. Jones' students.
- Describe which measure(s) of central tendency is easier to determine using a line plot.

Sixth Grade Spiraling Review

Week 3 of Fifth Six Weeks (cont.)

Note: Record all work in your math journal.

Day 2	<p>The following circle graph displays how Brooke spends her time on the weekends:</p> <p style="text-align: center;">Time Spent on Weekends</p> <div style="text-align: center;">  <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <caption>Time Spent on Weekends Data</caption> <thead> <tr> <th>Activity</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Spending time with Family</td> <td>44%</td> </tr> <tr> <td>Cleaning</td> <td>24%</td> </tr> <tr> <td>Sleeping</td> <td>13%</td> </tr> <tr> <td>Entertainment</td> <td>11%</td> </tr> <tr> <td>Catching up on Work</td> <td>8%</td> </tr> </tbody> </table> </div> <p>a) What is the difference between the time spent sleeping and catching up on work? b) What is the difference in the time spent sleeping and cleaning? c) Record the decimal equivalent for each percentage represented in the circle graph.</p>	Activity	Percentage	Spending time with Family	44%	Cleaning	24%	Sleeping	13%	Entertainment	11%	Catching up on Work	8%
Activity	Percentage												
Spending time with Family	44%												
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Sleeping	13%												
Entertainment	11%												
Catching up on Work	8%												
Day 3	<p>A survey was conducted at Lady Bird Johnson Middle School that asked how many hours of sleep a random selection of students received on average over a week's time. The results are as follows:</p> <p style="text-align: center;">Boys: 7.5, 8, 6.5, 6, 8, 7, 5, 9, 8, 7.5 Girls: 5, 5, 9, 6, 6.5, 7, 8, 7.5, 8, 9, 7</p> <p>a) What is the mode for the set of Boys' data? b) What is the range for the set of Girls' data? c) How do the medians of both sets of data compare to each other?</p>												

Sixth Grade Spirling Review

Week 3 of Fifth Six Weeks (cont.)

Note: Record all work in your math journal.

Day 4	<p>Max is collect data about his favorite baseball player, Albert Pujols. He recorded Pujols' batting average in six different baseball games in the table below.</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Opponent</th> <th style="padding: 5px;">Batting Average</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Texas Rangers</td> <td style="padding: 5px;">.345</td> </tr> <tr> <td style="padding: 5px;">Baltimore Orioles</td> <td style="padding: 5px;">.298</td> </tr> <tr> <td style="padding: 5px;">San Francisco Giants</td> <td style="padding: 5px;">.312</td> </tr> <tr> <td style="padding: 5px;">Atlanta Braves</td> <td style="padding: 5px;">.400</td> </tr> <tr> <td style="padding: 5px;">New York Mets</td> <td style="padding: 5px;">.264</td> </tr> <tr> <td style="padding: 5px;">Los Angeles Dodgers</td> <td style="padding: 5px;">.312</td> </tr> </tbody> </table> <p style="margin-top: 10px;">a) Which game Pujols get a hit every four out of ten times at bat? b) What is the range for this set of data? c) Determine the median for Pujols' batting average in these six games.</p>	Opponent	Batting Average	Texas Rangers	.345	Baltimore Orioles	.298	San Francisco Giants	.312	Atlanta Braves	.400	New York Mets	.264	Los Angeles Dodgers	.312
Opponent	Batting Average														
Texas Rangers	.345														
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San Francisco Giants	.312														
Atlanta Braves	.400														
New York Mets	.264														
Los Angeles Dodgers	.312														
Day 5	<p>Analyze the following set of data that represents the average temperatures in Texas throughout the summer of 2010:</p> <p style="text-align: center; margin: 10px 0;">98, 95, 101, 102, 94, 98, 96, 98, 100, 102, 96, 98, 96, 100, 104, 98, 96</p> <p>a) Determine which type of graph would most appropriately represent this data. b) Describe why this representation is more appropriate than another graphical representation you've been introduced to c) Create an appropriate graphical representation to display this data.</p>														

Sixth Grade Spiraling Review

Week 4 of Fifth Six Weeks

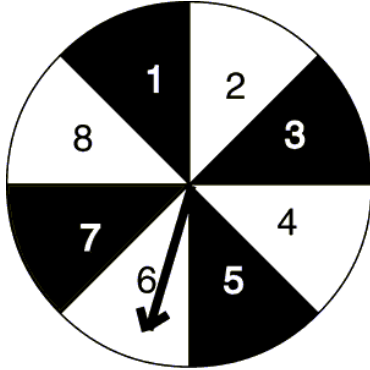
Note: Record all work in your math journal.

Day 1	<p>Amber has a spinner with a radius of 7 cm.</p> <div style="text-align: center; margin: 10px 0;"> </div> <p>a) What is the approximate circumference of the spinner?</p>																																
Day 2	<p>Hunter is putting together a family tree, and he is recording the ages of all his family members at their latest family reunion.</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Family member</th> <th style="padding: 5px;">Age</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;">Mom</td><td style="padding: 5px;">32</td></tr> <tr><td style="padding: 5px;">Dad</td><td style="padding: 5px;">34</td></tr> <tr><td style="padding: 5px;">Grandma</td><td style="padding: 5px;">58</td></tr> <tr><td style="padding: 5px;">Grandpa</td><td style="padding: 5px;">64</td></tr> <tr><td style="padding: 5px;">Great Grandma</td><td style="padding: 5px;">94</td></tr> <tr><td style="padding: 5px;">Sister</td><td style="padding: 5px;">7</td></tr> <tr><td style="padding: 5px;">Brother</td><td style="padding: 5px;">5</td></tr> <tr><td style="padding: 5px;">Aunt (Mom's side)</td><td style="padding: 5px;">40</td></tr> <tr><td style="padding: 5px;">Uncle (Mom's side)</td><td style="padding: 5px;">36</td></tr> <tr><td style="padding: 5px;">Uncle (Mom's side)</td><td style="padding: 5px;">34</td></tr> <tr><td style="padding: 5px;">Aunt (Dad's side)</td><td style="padding: 5px;">28</td></tr> <tr><td style="padding: 5px;">Cousin1</td><td style="padding: 5px;">14</td></tr> <tr><td style="padding: 5px;">Cousin2</td><td style="padding: 5px;">16</td></tr> <tr><td style="padding: 5px;">Cousin3</td><td style="padding: 5px;">3</td></tr> <tr><td style="padding: 5px;">Cousin4</td><td style="padding: 5px;">7</td></tr> </tbody> </table> <p>a) Hunter tells his brother that there is no mode, because two numbers repeat the same amount of times. Is he correct? Explain. b) Hunter's sister says the range of the data is 59. Is she correct? Explain. c) Identify the median of the data.</p>	Family member	Age	Mom	32	Dad	34	Grandma	58	Grandpa	64	Great Grandma	94	Sister	7	Brother	5	Aunt (Mom's side)	40	Uncle (Mom's side)	36	Uncle (Mom's side)	34	Aunt (Dad's side)	28	Cousin1	14	Cousin2	16	Cousin3	3	Cousin4	7
Family member	Age																																
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Sixth Grade Spirling Review

Week 4 of Fifth Six Weeks (cont.)

Note: Record all work in your math journal.

Day 3	<p>Diego is trying to sort his closet into three categories: socks, shirts, and pants. He has one pair of black socks, one pair of brown socks, and one pair of white socks. He has one red shirt, one green shirt, one blue shirt, and one black shirt. He has one pair of khakis, and one pair of slacks.</p> <p>a) Construct the sample space for this information.</p>												
Day 4	<p>The following is a sampling of the ingredients you can include on your sandwich at Dezeray's restaurant:</p> <div style="text-align: center; margin: 10px 0;"> <p><u>Dezeray's Sandwich Shop</u></p> <table style="margin: auto; border: none;"> <tr> <td style="text-align: center; padding: 5px;"><u>Bread</u></td> <td style="text-align: center; padding: 5px;"><u>Meat</u></td> <td style="text-align: center; padding: 5px;"><u>Cheese</u></td> </tr> <tr> <td style="text-align: center; padding: 5px;">Rye</td> <td style="text-align: center; padding: 5px;">Turkey</td> <td style="text-align: center; padding: 5px;">American</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Wheat</td> <td style="text-align: center; padding: 5px;">Ham</td> <td style="text-align: center; padding: 5px;">Swiss</td> </tr> <tr> <td style="text-align: center; padding: 5px;">White</td> <td style="text-align: center; padding: 5px;">Roast Beef</td> <td style="text-align: center; padding: 5px;">Cheddar</td> </tr> </table> </div> <p>a) Create a tree diagram arranging all the combinations of sandwiches at Dezeray's Sandwich Shop</p>	<u>Bread</u>	<u>Meat</u>	<u>Cheese</u>	Rye	Turkey	American	Wheat	Ham	Swiss	White	Roast Beef	Cheddar
<u>Bread</u>	<u>Meat</u>	<u>Cheese</u>											
Rye	Turkey	American											
Wheat	Ham	Swiss											
White	Roast Beef	Cheddar											
Day 5	<p>Amber used the following spinner in a game.</p> <div style="text-align: center; margin: 10px 0;">  </div> <p>a) What is the probability the spinner will land on an even number? b) What is the probability it will land on a number less than 10? c) What is the probability it will land on a number greater than 3?</p>												

Sixth Grade Spiraling Review

Week 5 of Fifth Six Weeks

Note: Record all work in your math journal.

Day 1	<p>Ana is drawing marbles out of a bag that include 5 black, 4 blue, 3 red, and 2 green marbles.</p> <p>a) What is the probability of drawing a blue marble? b) What is the probability of drawing a red or green marble?</p>
Day 2	<p>Ms. Seifert's math class is rolling numbered cubes to investigate probability.</p> <p>a) What is the probability of rolling a number less than 5? b) How would this ratio be represented as a decimal? c) How would this ratio be represented as a percent?</p>
Day 3	<p>Rafael is spinning a spinner with 5 equal sections of color: blue, yellow, green, red, and black.</p> <p>a) Determine the probability of landing on a green, red, or black space b) What is the decimal equivalent of this? c) What is the probability of landing on anything but yellow?</p>
Day 4	<p>A deck has 52 cards in it, with thirteen cards from each of the four suits: hearts, spades, clubs, and diamonds.</p> <p>a) What is the probability of drawing a spade from the deck of cards? b) Write and evaluate an expression that could be used to find the complement of drawing any card other than a diamond c) What is the probability of drawing a red card?</p>
Day 5	<p>The letters to the word photosynthesis are all placed into a bag.</p> <p style="text-align: center;">P H O T O S Y N T H E S I S</p> <p>a) Determine $P(E)$ b) Determine $P(S)$ c) What is the decimal equivalent of the probability of selecting a T? d) What is the percent equivalent to the $P(N)$ e) What is the decimal and percent equivalent of selecting any letter other than O?</p>

Sixth Grade Spirling Review

Fifth Six Weeks

Answer Keys

(pp. 1 of 5)

Week 1 Answer Key: *Process may vary.*

Day 1	<i>Answers will vary depending on the cards drawn by each student.</i> a) See student work.
Day 2	<i>Answers will vary</i> a) May use the formula to calculate the volume: length x width x height or Area of base x height. $5 \times 4 \times 3 = 60$ cubic units or $20 \times 3 = 60$ cubic units
Day 3	a) \$200; $400 - 200 = 200$ b) Sebastian earned the least amount of money. c) \$150; $250 - 100 = 150$
Day 4	a) Yes; The Milton Family spends 33% on Food each month and only 31% on Rent (25%) and Savings (6%) b) $25\% = \frac{25}{100} = \frac{1}{4}$ c) $15\% = \frac{15}{100} = \frac{3}{20}$
Day 5	a) Minimum: 44 mph; Maximum: 103 mph b) 3 wind velocities were recorded in the sixties c) 12 wind velocities were recorded

Week 2 Answer Key: *Process may vary.*

Day 1	<p>a)</p> <p>Line Plot</p> <p>Stem and Leaf Plot</p> <pre> 0 6 6 8 8 1 4 4 4 8 8 2 0 0 1 2 2 9 3 4 </pre> <p>1 8 represents 18</p>
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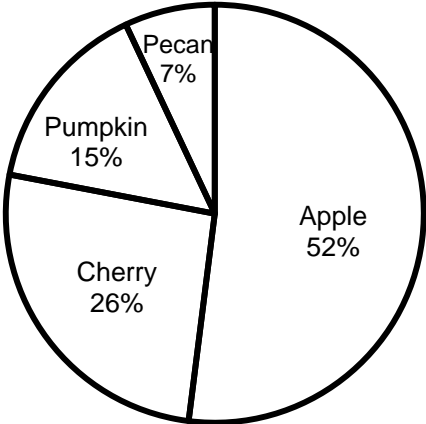
Sixth Grade Spiraling Review

Fifth Six Weeks

Answer Keys

(pp. 2 of 5)

Week 2 Answer Key (continued): *Process may vary.*

Day 2	a)	<p>Varieties of Apples Found at the Grocery Store</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Red Delicious</td> <td style="text-align: center;">  </td> </tr> <tr> <td style="padding: 5px;">Granny Smith</td> <td style="text-align: center;">  </td> </tr> <tr> <td style="padding: 5px;">Fuji</td> <td style="text-align: center;">  </td> </tr> <tr> <td style="padding: 5px;">McIntosh</td> <td style="text-align: center;">  </td> </tr> <tr> <td style="padding: 5px;">Golden Delicious</td> <td style="text-align: center;">  </td> </tr> </table>	Red Delicious		Granny Smith		Fuji		McIntosh		Golden Delicious	
Red Delicious												
Granny Smith												
Fuji												
McIntosh												
Golden Delicious												
		 = 10 apples										
Day 3	a) Range: 7 in.; $8 - 1 = 7$ Median: 5 in. Mode: 8 in.											
Day 4	a) Mean: \$8. See student work.											
Day 5	See student work. <div style="text-align: center; margin-top: 20px;"> <p>Favorite Pie Flavors</p>  <table border="1" style="margin: auto; border-collapse: collapse;"> <caption>Favorite Pie Flavors Data</caption> <thead> <tr> <th>Flavor</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Apple</td> <td>52%</td> </tr> <tr> <td>Cherry</td> <td>26%</td> </tr> <tr> <td>Pumpkin</td> <td>15%</td> </tr> <tr> <td>Pecan</td> <td>7%</td> </tr> </tbody> </table> </div>		Flavor	Percentage	Apple	52%	Cherry	26%	Pumpkin	15%	Pecan	7%
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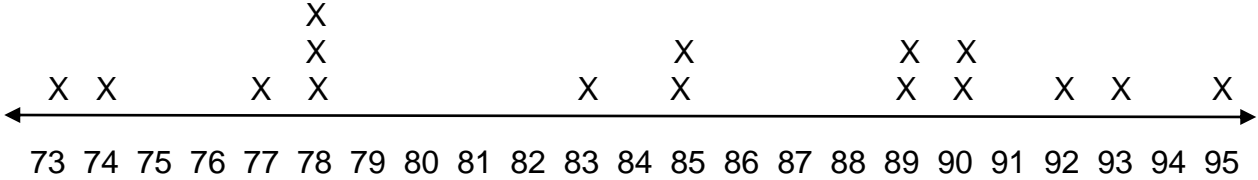
Sixth Grade Spiraling Review

Fifth Six Weeks

Answer Keys

(pp. 3 of 5)

Week 3 Answer Key: *Process may vary.*

Day 1	<p>a) Line Plot:</p> <div style="text-align: center;">  </div> <p>b) Median = 85; Mode = 78; Range: 22</p> <p>c) <i>Answers may vary.</i> The mode is easier to determine using the line plot because it has the X's occur most frequently for a specific value or category.</p>
Day 2	<p>a) 5%; $13 - 8 = 5$</p> <p>b) 11%; $24 - 13 = 11$</p> <p>c) Catching up on Work: $8\% = 0.08$; Entertainment: $11\% = 0.11$; Sleeping = $13\% = 0.13$; Cleaning: $24\% = 0.24$; Spending time with Family: $44\% = 0.44$</p>
Day 3	<p>a) Mode for Boys' data: 8</p> <p>b) Mode for Girls' data: 5</p> <p>c) The median for the Boys' data is 7.5 with the median for the Girls' data is 7.</p>
Day 4	<p>a) $\frac{4 \text{ hits}}{10 \text{ at bats}} = 0.4$</p> <p>b) Range: $0.400 - 0.264 = 0.136$</p> <p>c) Median: 0.312</p>
Day 5	<p>Answers may vary.</p> <p>a) This data can be most appropriately represented with a line plot of a stem and leaf plot.</p> <p>b) A line plot displays how often each number occurs, while a stem and leaf plot orders a set of data and displays the frequency of each piece of data.</p> <p>c) See student work</p>

Sixth Grade Spiraling Review


Fifth Six Weeks

Answer Keys

(pp. 4 of 5)

Week 4 Answer Key: *Process may vary.*

Day 1	a) $C = 2\pi r$; $2(3)(7) \approx 42$ cm																		
Day 2	a) No, there can be more than one mode for a set of data. b) No, the range of the data is the difference between the greatest and least value. $94 - 3 = 91$ c) Median: 32																		
Day 3	a) A tree diagram may also be used. <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Black Red Khaki</td> <td style="padding: 2px;">Brown Red Khaki</td> <td style="padding: 2px;">White Red Khaki</td> </tr> <tr> <td style="padding: 2px;">Black Red Slacks</td> <td style="padding: 2px;">Brown Red Slacks</td> <td style="padding: 2px;">White Red Slacks</td> </tr> <tr> <td style="padding: 2px;">Black Green Khaki</td> <td style="padding: 2px;">Brown Green Khaki</td> <td style="padding: 2px;">White Green Khaki</td> </tr> <tr> <td style="padding: 2px;">Black Green Slacks</td> <td style="padding: 2px;">Brown Green Slacks</td> <td style="padding: 2px;">White Green Slacks</td> </tr> <tr> <td style="padding: 2px;">Black Blue Khaki</td> <td style="padding: 2px;">Brown Blue Khaki</td> <td style="padding: 2px;">White Blue Khaki</td> </tr> <tr> <td style="padding: 2px;">Black Blue Slacks</td> <td style="padding: 2px;">Brown Blue Slacks</td> <td style="padding: 2px;">White Blue Slacks</td> </tr> </table>	Black Red Khaki	Brown Red Khaki	White Red Khaki	Black Red Slacks	Brown Red Slacks	White Red Slacks	Black Green Khaki	Brown Green Khaki	White Green Khaki	Black Green Slacks	Brown Green Slacks	White Green Slacks	Black Blue Khaki	Brown Blue Khaki	White Blue Khaki	Black Blue Slacks	Brown Blue Slacks	White Blue Slacks
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Day 4	a) <div style="text-align: center; margin-top: 20px;"> </div>																		
Day 5	a) $P(\text{even}) = \frac{4}{8} = \frac{1}{2}$ b) $P(\text{less than } 10) = \frac{8}{8} = \frac{1}{1} = 1$ c) $P(\text{greater than } 3) = \frac{5}{8}$																		


Sixth Grade **Spiraling Review**
Fifth Six Weeks
Answer Keys
 (pp. 5 of 5)

Week 5 Answer Key: *Process may vary.*

Day 1	a) $P(\text{blue}) = \frac{4}{14} = \frac{2}{7}$ b) $P(\text{red or green}) = \frac{5}{14}$
Day 2	a) $P(\text{less than 5}) = \frac{4}{6} = \frac{2}{3}$ b) $\frac{2}{3} = 0.6\bar{6}$ c) $\frac{2}{3} = 66.6\bar{6}\%$
Day 3	a) $P(\text{green, red, or black}) = \frac{3}{5}$ b) $\frac{3}{5} = \frac{6}{10} = 0.6$ c) $P(\text{anything but yellow}) = \frac{4}{5}$
Day 4	a) $P(\text{spade}) = \frac{1}{4}$ b) $P(\text{anything by diamond}) = \frac{3}{4}$ Complement: $1 - \frac{3}{4} = \frac{1}{4}$ c) $P(\text{red}) = \frac{1}{2}$
Day 5	a) $P(E) = \frac{1}{14}$ b) $P(S) = \frac{3}{14}$ c) $P(T) = \frac{2}{14} = \frac{1}{7} \approx 0.143$ d) $P(N) = \frac{1}{14} \approx 0.071 = 7.1\%$ e) $P(\text{any letter other than O}) = \frac{12}{14} = \frac{6}{7} \approx 0.857 = 85.7\%$