## Sixth Grade ©Spiraling Review <br> Week 1 of Second Six Weeks

Note: Record all work in your math journal.

| Day 1 | Scott bought fruit for a baseball tournament. The table shows the amount of each type of fruit he bought. <br> a) Place the fruits in order from least amount to greatest. <br> b) Explain the process you used to order the numbers. |
| :---: | :---: |
| Day 2 | a) Describe how multiples, common multiples, and least common multiples are the same and how they are different. |
| Day | In Mrs. Jones' class, a prize is awarded to the person whose ticket number is the greatest common factor of 12, 24, and 48. Charlene has ticket number 6 . Charlene stated she has the winning ticket. <br> a) Is she correct? <br> b) Justify your answer. |
| Day | Kevin and his best friend, Pedro, are going to the movies and decide to combine their money together. Kevin has $\$ 8.85$, and Pedro has $\$ 12.32$. <br> a) What is the sum of these quantities? <br> b) What is the difference in the amount of money each boy has? |
| Day 5 | a) Express $\frac{3}{5}$ as a decimal. <br> b) Explain the process you used to convert this fraction to a decimal. <br> c) Name a fraction that is greater than $\frac{3}{5}$ and less than $\frac{3}{5}$. |

## Sixth Grade © Spiraling Review <br> Week 2 of Second Six Weeks

Note: Record all work in your math journal.

| Day 1 | The Party Room charges $\$ 50$ to have a party, plus $\$ 3$ per person. <br> a) If Tristan wants to have a party with 23 people, how much will The Party Room charge him? Justify your response. |
| :---: | :---: |
| Day 2 | a) Write a statement to describe how you would explain $\frac{5}{9}$ is less than $\frac{2}{3}$ |
| Day 3 | Chandler's teacher wrote the following expression on the board. $2 \times(15+9)-6 \div 3$ <br> Chandler evaluated the expression and got 46 for his answer. <br> a) Is Chandler correct? Justify your response. |
| Day 4 | a) Use the given numbers and symbols (one per square) in the empty squares below, so when evaluated the resulting expression has a value of 10. $5,4,3,2, \div,+, x$ <br> ( ) <br> b) Describe how you determined where to put the numbers and symbols. |
| Day 5 | The top 4 times in the 100 meter dash were recorded in the table below: <br> a) Place the times in order from fastest to slowest. <br> b) Who won the race? |

## Sixth Grade © Spiraling Review <br> Week 3 of Second Six Weeks

Note: Record all work in your math journal.

| Day 1 | Mary, Ronald, and Shelia went to the pizza buffet. Mary ate $\frac{2}{9}$ of a pizza, Ronald ate $\frac{5}{9}$ <br> of a pizza, and Shelia ate $\frac{4}{9}$ of a pizza. <br> a) How much pizza did they eat altogether? Justify your response. |
| :--- | :--- |
| Day 2 | Jesus and his mother are going back to school shopping. Jesus found shirts originally <br> priced at $\$ 34.00$ each, on sale for $\$ 6.75$ off the original price, and pants originally $\$ 28.00$ <br> each, on sale for $\$ 3.30$ off. <br> a) If they purchased three shirts and one pair of pants at the sale prices, what would <br> their total be? <br> b) If Jesus' mother brought $\$ 150.00$ to spend, what will be the change she receives <br> when she pays the clerk? |
| Day 3 | Jerry walked $\frac{5}{8}$ of a mile and his sister walked $\frac{5}{6}$ of a mile. <br> a) Estimate approximately how far they walked together. Justify your response. |
| Day 4 | Carl ran $2 \frac{2}{3}$ miles, and his brother ran $\frac{13}{5}$ miles. Carl said he ran 1 mile farther than his <br> brother. <br> a) Is Carl's statement correct? Justify your response. |
| Day 5 | Braden wants to order a new baseball bat. When he ordered the bat, the shipping <br> charge was $\$ 1.00$ for every $\$ 5.00$ spent. <br> a) Use color tiles to create a model of the ratio between the amount for shipping and the <br> amount spent. Draw a diagram of your model. <br> b) How much would Braden spend on shipping if his bat cost $\$ 25.00 ?$ <br> c) What would be the total cost of Braden's order? |

## Sixth Grade © Spiraling Review <br> Week 4 of Second Six Weeks

Note: Record all work in your math journal.

| Day 1 | Write <, =, or > between each pair of rational numbers. Write a statement describing <br> how you determined what symbol to place between each pair of rational numbers. |
| :--- | :--- |
|  | a) $\frac{5}{7}$ |
| b) 2.2 |  |
| c) $3 \frac{3}{4}$ | $\frac{5}{6}$ |

## Sixth Grade OSpiraling Review <br> Week 5 of Second Six Weeks

## Advanced Preparation: Color tiles

Note: Record all work in your math journal.

| Day 1 | Donna and her best friend are making bracelets. The girls combined can make 34 <br> bracelets in 60 minutes. <br> a) How many bracelets would they make in $1 / 2$ hour? <br> b) <br> If the girls worked for 5 hours, how many bracelets would they make? |
| :---: | :--- |
| Day 2 | Ralph bought a board that was $6 \frac{1}{8}$ feet long. He cut $2 \frac{1}{4}$ feet off for a ramp. <br> a) How much board does he have left? |
| Day 3 | The Texas Smash hit 24 baseballs. The Texas Chargers caught 5 of every 8 baseballs <br> hit. The Chargers said they caught 17 of the baseballs. <br> a) Are the Chargers correct? Justify your response. |
| Day 4 | Veronica ran 59 minutes, Vicki ran $\frac{3}{4}$ of an hour, and Sandy ran 70 minutes. <br> a) Place the amount of time the girls ran in order from greatest to least. Justify your <br> response. <br> b) Who ran the longest amount of time? Justify your response. |
| Day 5 | There are 78 cyclists at the park. <br> a) If the ratio of cyclists to skaters is 3 to 1, how many skaters are at the park? Justify <br> your response. |

# Sixth Grade $0_{\text {Spiraling Review }}$ <br> Second Six Weeks <br> Answer Keys (pp. 1 of 3) 

Week 1 Answer Key: Process may vary.
Day $1 \quad$ Scott bought fruit for a baseball tournament. The table shows the amount of each type of fruit he bought.
a) bananas: $\frac{9}{5}=1 \frac{4}{5}$, oranges: $2 \frac{3}{8}$, apples: $\frac{19}{6}=3 \frac{1}{6}$, peaches: $3 \frac{2}{5} \rightarrow \frac{9}{5}, 2 \frac{3}{8}, \frac{19}{6}$, $3 \frac{2}{5}$
b) Write each fraction as a mixed number and compare whole numbers and then compare fraction parts.
Day 2
Answers may vary.
a) Multiples are products of a natural number and another natural number.

Example: multiples of $6 \rightarrow 6 \times 1=6,6 \times 2=12,6 \times 3=18$, etc.
Common multiples are the common products for two or more given natural numbers.
Example: common multiples of 2 and $4 \rightarrow 2 \times 1=2,2 \times 2=4,2 \times 3=6,2 \times 4=8$, etc.
$4 \times 1=4,4 \times 2=8,4 \times 3=12,4 \times 4=16$, etc. The common multiples are 4,8 , etc.
Least common multiples are the smallest common products for two or more given natural number numbers.
Example: least common multiple of 2 and 4 is 4 .
Day 3 a) No. Greatest common factor is 12.
b) Factors of $12: 1,2,3,4,6,12$; Factors of 24 : $1,2,3,4,6,8,12,24$; Factors of 48 : $1,2,3,4,6,8,12,16,24,48$.
Day 4
a) $12.32+8.85=21.17$
b) $12.32-8.85=3.47$

Day 5
a) $\frac{3}{5} \times \frac{2}{2}=\frac{6}{10}=0.6$
b) Write $\frac{3}{5}$ as an equivalent fraction with a denominator of 10 and write in decimal and form.
c) Answers may vary.

Week 2 Answer Key: Process may vary.

| Day 1 | a) Party Room Charges $=50+(3 \times$ number of people $)$ <br> $50+(3 \times 23)=50+69=\$ 119$ |
| :---: | :--- |
| Day 2 | Answers may vary. <br> a) Convert so there is a common denominator of $9: \frac{5}{9}$ and $\frac{2}{3} \times \frac{3}{3}=\frac{6}{9}$ and then <br> compare the numerators. |

# Sixth Grade ©Spiraling Review <br> Second Six Weeks <br> Answer Keys (pp. 2 of 3) 

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


Week 3 Answer Key: Process may vary.

| Day 1 | a) $\frac{2}{9}+\frac{5}{9}+\frac{4}{9}=\frac{11}{9}=1 \frac{2}{9}$; Since the denominators were the same, the numerators were added. The result was converted to a mixed number. They ate one whole pizza and $\frac{2}{9}$ of another pizza. |  |
| :---: | :---: | :---: |
| Day 2 | a) $(34.00-6.75)=\$ 27.25 \quad(28.00-3.30)=\$ 24.70$ <br> $(27.25+27.25+27.25+24.70)=\$ 106.45$ <br> b) $\$ 150-\$ 106.45=\$ 43.55$ |  |
| Day 3 | a) The first fraction is slightly greater than $\frac{1}{2}$, and the second fraction is slightly less than 1. $\frac{5}{8}$ is $\frac{1}{8}$ more than $\frac{1}{2}$ and $\frac{5}{6}$ is $\frac{1}{6}$ less than 1 . Therefore the sum of $\frac{5}{8}$ and $\frac{5}{6}$ is close to $1 \frac{1}{2}$. |  |
| Day 4 | a) No: $\frac{13}{5}=2 \frac{3}{5}$ and when you subtract the whole numbers, the difference will be less than $1.2 \frac{2}{3}-\frac{13}{5}=2 \frac{2}{3}-2 \frac{3}{5}=2 \frac{10}{15}-2 \frac{9}{15}=\frac{1}{15}$ |  |
| Day 5 | a) $\square$ $=\$ 1$ shipping <br> b) $\$ 1 \times(\$ 25 \div \$ 5)=\$ 5 \mathrm{He}$ <br> c) $\$ 25$ for the bat $+\$ 5$ ship | $=\$ 5$ spent |

# Sixth Grade © Spiraling Review <br> Second Six Weeks <br> Answer Keys (pp. 3 of 3) 

Week 4 Answer Key: Process may vary.

| Day 1 | Write <, =, or > between each pair of rational numbers. Write a statement describing how you determined what symbol to place between each pair of rational numbers. <br> a) $\frac{5}{7}<\frac{5}{6}$ : Both have the same numerator and sixths are larger than sevenths. <br> b) $2.2=2 \frac{1}{5}: \frac{1}{5}=0.2$, therefore $2 \frac{1}{5}=2.2$ <br> c) $3 \frac{3}{4}>\frac{28}{8}: \frac{28}{8}=3 \frac{4}{8}=3 \frac{1}{2}$ and $\frac{3}{4}>\frac{1}{2}$ |
| :---: | :---: |
| Day 2 | a) $7: 10$ and $x: 30$; If $10 \times 3=30$, then $7 \times 3=21$ shots <br> b) .7 <br> c) $\frac{7}{10}$ |
| Day 3 | a) 4 to 3 ; $\frac{4}{3}$ <br> b) Answers may vary 8:6; 12:9; etc. |
| Day 4 | a) $2: 15$ and $\mathrm{x}: 50$; If $15 \times 3.34$ (approximately) is 50.1 , then $2 \times 3.34=6.68$, so Patrick would have to buy 7 bags of dog food. |
| Day 5 | a) $6.35+6.35+8.2+8.2=29.1$ <br> b) Perimeter is the distance around the rectangle. <br> c) $P=2 I+2 w$ or $P=2(I+w)$ |

Week 5 Answer Key: Process may vary.

| Day 1 | a) 17 bracelets; $34 \div 2=17$ <br> b) $34: 60$ and $\times 300 ;$ If $60 \times 5=300$, then $34 \times 5=170$ bracelets <br> Day 2 <br>  <br> a) $6 \frac{1}{8}-2 \frac{1}{4}=3 \frac{7}{8}$ |
| :--- | :--- |
| Day 3 | a) No: $\frac{5}{8}=\frac{?}{24} ; ?=15$; Answers may vary. |
| Day 4 | a) Greatest to least: 70 minutes, 59 minutes, $\frac{3}{4}$ of 60 minutes $=45$ minutes |
| b) Sandy ran the longest since 70 minutes $>59$ minutes $>45$ minutes |  |$|$| Day 5 | a) $\frac{\text { cyclists }}{\text { skaters }}=\frac{3}{1}=\frac{78}{?} ; ?=26$ skaters; $\frac{3}{1} \times \frac{26}{26}=\frac{78}{26}$ |
| :--- | :--- |

