Sixth Grade Spiraling Review Week 1 of First Six Weeks

Day 1	The chart below shows the populations of four different cities.				
		City	Population		
		Austin	656,562		
		Dallas 1,188,580			
		Houston 1,953,631			
		San Antonio	1,144,646		
	a) Place the cities in b) Find the difference		eatest population. nd greatest population.		
Day 2	Gina is baking cookies whose recipe uses 4 cups of sugar, 6 eggs, and $\frac{1}{2}$ c. of milk.				
	a) If Gina cuts the recipe in half, how much of each ingredient will she end up using?				
Day 3	 a) Give an example and non-example of an improper fraction. b) Change your improper fraction to a mixed number. c) Explain the steps to change an improper fraction to a mixed number. 				
Day 4	Susie says she ate $\frac{2}{3}$ of a pizza. John said Susie ate $\frac{6}{9}$ of the pizza.				
	a) Is John's statemerb) Why or why not?	it correct?			
Day 5	a) Given $\frac{7}{11} + \frac{6}{11}$. How does each addend compare to $\frac{1}{2}$?				
Use Calculators	b) Will the sum be less than 1? Greater than 1? Explain.c) Use a calculator to find the sum. Write the sum as an improper fraction and a mixed number.			fraction and a	
	d) How does your es	imate compare to the	e sum from the calculato	or?	

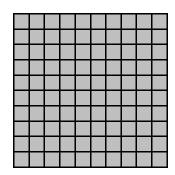
Sixth Grade Spiraling Review Week 2 of First Six Weeks

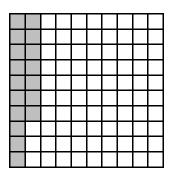
Note: Record all work in your math journal.

Day 1	a) Draw a number line and place the following rational numbers on the line appropriately.
	2.7.2.44

$$\frac{3}{8}$$
, $\frac{7}{8}$, $\frac{3}{4}$ and $\frac{14}{16}$

Day 2 Look at the picture below. Each large square has a value of 1.





- a) Name a decimal number that is represented by the picture.
- b) Name a fraction that is represented by the picture.

Day 3

- a) Use a number line to compare $\frac{1}{2}$ and $\frac{9}{16}$.
- b) Write an explanation to describe this relationship.

Day 4

Brody drew a line segment $2\frac{3}{8}$ inches long. Caleb measured the same line segment

and said it was $\frac{19}{16}$ inches long.

a) Explain whether Caleb's answer is correct or incorrect.

Day 5

Put the following fractions into two groups, those less than $\frac{1}{2}$, and those greater

Calculators $than \frac{1}{2}$.

$$\frac{5}{7}$$
, $\frac{4}{9}$, $\frac{3}{5}$, $\frac{7}{16}$, $\frac{12}{11}$, $\frac{0}{4}$

Use a calculator to check your answer.

Sixth Grade Spiraling Review Week 3 of First Six Weeks

11010. 1100014	an work in your math journal.
Day 1	The local pizza place has a new promotion. You can win a free drink if you can draw three different pizza models that are equivalent to $\frac{5}{3}$. a) Draw three different pizza models that are equivalent to $\frac{5}{3}$.
Day 2	Susan got $\frac{16}{20}$ problems correct on her math test. a) How would you write this fraction as a decimal? b) Explain two different ways you can write $\frac{16}{20}$ as a decimal.
Day 3	Allyne said that she had $\frac{8}{5}$ of pizzas left from the party. Billy said she had 1.3 pizzas left. a) Explain whether Billy's statement is correct or incorrect.
Day 4	Identify a real-life situation that represents each integer a) -27 b) 15 c) -150 d) 2
Day 5 Use Calculators	John said he got $\frac{3}{4}$ of his test correct and his teacher said he got 0.75 of his test correct. a) Are $\frac{3}{4}$ and 0.75 equivalent? b) Why or why not? Justify your answer. c) Use a calculator to prove your answer.

Sixth Grade Spiraling Review Week 4 of First Six Weeks

Day 1	Use the diagram to answer the following questions.
Day .	
	a) Write the decimal represented.
	b) Express the representation in words.
	c) Write the fraction represented.
Day 2	Complete each comparison sentence using symbols (>, <, =). Explain your
	reasoning for each.
	a) $\frac{2}{6}$ 0.50 b) 0.6 $\frac{4}{5}$ c) $\frac{3}{3}$ $\frac{6}{6}$
	$\begin{bmatrix} a \\ 6 \end{bmatrix} $ $\begin{bmatrix} 5 \\ 6 \end{bmatrix} $ $\begin{bmatrix} 6 \\ 6 \end{bmatrix} $
Day 3	The thermometer in Austin, TX reads 98 °F on Monday. On Tuesday, it was 7
_	degrees warmer. On Wednesday it was 2 degrees colder than it was on Monday.
	a) Represent the change in temperature for Tuesday and Wednesday with an
	integer.
	b) Use a number line to record the changes over the week.
	, , , , , , , , , , , , , , , , , , ,
Day 4	Write a comparison sentence for each of the following using symbols
,	(>, <, =). Write the place value name used to compare the numbers.
	a) 1,873.989 1,783.989 Place Compared:
	b) 355.01 355.1 Place Compared:
	c) 87.254 87.245 Place Compared:
	d) 20.406 20.46 Place Compared:
Day 5	a) Write 1.25 as an improper fraction.
, -	b) Explain the steps you used to change the decimal to an improper fraction.
Use	c) Check your answer with a calculator.
Calculators	

Sixth Grade Spiraling Review Week 5 of First Six Weeks

Day 1	a) Give an example and a non-example of a prime number. b) Give an example and a non-example of a composite number. c) Write definitions for both a prime number and a composite number. d) Is the number 1 prime? Explain.
Day 2	Mrs. Jones has 24 students in her class. She needs to divide her students into groups for a project. a) List all the different ways she could group her students.
Day 3	Cade is having a party for forty students at his school. The plates come in packages of 8, the napkins in packages of 10 and the forks in packages of 20. He told his mom to buy 5 packages of plates, 4 packages of napkins and 3 packages of forks. a) Did Cade tell his mother the correct number of packages to buy for each item? Explain why or why not. b) If Cade's mom bought 10 packages of each, what is the maximum number of students that could receive 1 fork, 1 plate, and 1 napkin? Explain your reasoning.
Day 4	a) Draw a factor tree showing all the prime factors of 325.b) Draw a factor tree showing all the prime factors for 208.c) Write the prime factors for 325 and 208 in exponential form.
Day 5	a) What is the least common multiple that Ralph can use to add fractions with denominators of 6, 12, and 18?b) Write a statement how you determined the least common multiple for 6, 12, and 18.



Answer Keys (pp. 1 of 4)

Week 1 Answer Key: Process may vary.

AACCV I VI	iswer Key: <i>Process may vary.</i>
Day 1	a) Austin, San Antonio, Dallas, Houston
	b) 1,953,631 — 656,562 = 1,297,069
Day 2	a) 2 cups of sugar, 3 eggs, and $\frac{1}{4}$ c. up milk
Day 3	Answers may vary.
	a) Improper fraction: $\frac{5}{4}$, not improper: $\frac{3}{4}$
	b) $\frac{5}{4} = 1\frac{1}{4}$
	c) Sample answer: First divide the numerator into the denominator. The quotient will become the whole number. The remainder is put back over the denominator to become the
	fractional part. Five $\frac{1}{4}$'s \rightarrow four $\frac{1}{4}$'s make a whole and one $\frac{1}{4}$ left over.
Day 4	a) yes $\frac{2.3}{3.3} = \frac{6}{9}$
	b) Answers may vary.
Day 5	a) Both are a little more than $\frac{1}{2}$
	b) Since both of the addends are a little more than $\frac{1}{2}$, the sum should be a little more than
	1.
	c) $\frac{13}{11}$ and $1\frac{2}{11}$
	d) $1\frac{2}{11}$ is a little more than 1

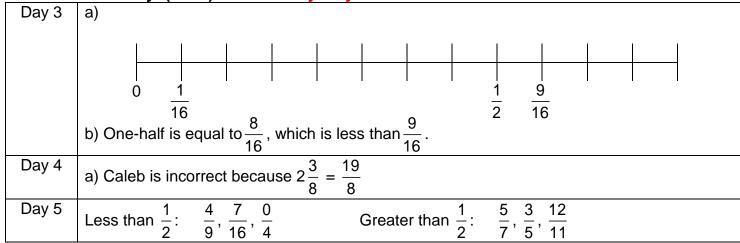
Week 2 Answer Key: Process may vary.

Day 1			$\frac{3}{4} \frac{14}{16}$	
		0	3 7 1	
			$\frac{\overline{8}}{8}$	
Day 2	a) 1.17			
	b) $1\frac{17}{100}$ or $\frac{117}{100}$			

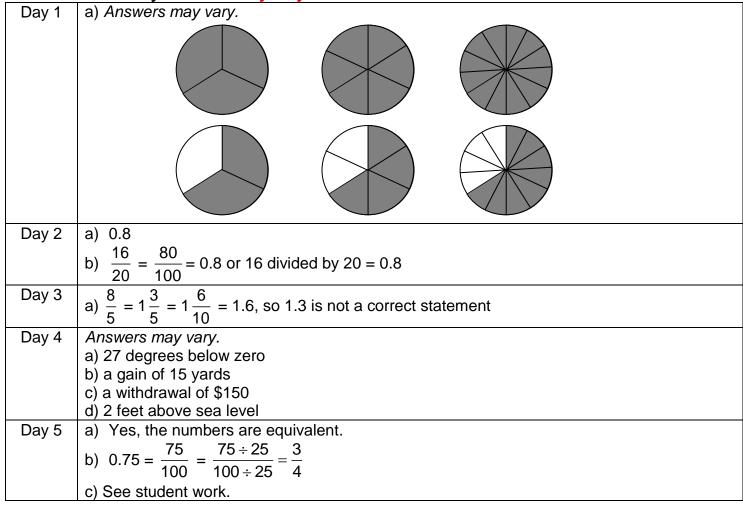
Sixth Grade Spiraling Review First Six Weeks

Answer Keys (pp. 2 of 4)

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



Week 3 Answer Key: Process may vary



Answer Keys (pp. 3 of 4)

Week 4 Answer Key: Process may vary.

WCCK 4 A	nswer Key: Process may vary.
Day 1	a) 0.59
	b) fifty-nine hundredths
	59
	$\frac{c)}{100}$
Day 2	a) $\frac{2}{6}$ < 0.50; 0.50 = $\frac{1}{2} = \frac{3}{6}$
	b) $0.6 < \frac{4}{5}$; $0.6 = \frac{6}{10} = \frac{3}{5}$
	c) $\frac{3}{3} = \frac{6}{6}$; $\frac{3}{3}$ and $\frac{6}{6}$ both are equal to 1
Day 3	a) Tuesday: 7; Wednesday: -2
	b) -2 +7
	95 100 105 110
Day 4	a) 1,873.989 > 1,783.989 → Place Compared: <u>hundreds</u>
	b) 355.01 < 355.1 → Place Compared: <u>tenths</u>
	c) 87.254 > 87.245 → Place Compared: <u>hundredths</u>
	d) 20.406 < 20.46 → Place Compared: <u>hundredths</u>
Day 5	a) $1\frac{25}{100} = 1\frac{1}{4} = \frac{5}{4} = \frac{125}{100}$
	b) Sample answer: Multiply the denominator by the whole number and add the numerator
	to the product.
	c) See student work.
-	1 - 1

Answer Keys (pp. 4 of 4)

Week 5 Answer Key: Process may vary.

Week 5 Ans	wer Key: <i>Process may vary.</i>
Day 1	a) Answers may vary.
	b) Answers may vary.
	c) Prime number- a number with exactly two unique positive integer factors: 1 and the number. Composite number- a number with more than two unique positive integer
	factors.
	c) The number 1 is not prime because the definition says exactly two unique positive factors. 1 only has one unique positive integer factor.
Day 2	1 group of 24, 2 groups of 12, 3 groups of 8, 4 groups of 6, 6 groups of 4, 8 groups of 3, 12 groups of 2, 24 groups of 1
Day 3	 a) No; Answers may vary. b) 80 students; Ten packages would yield 80 plates, 100 napkins, and 200 forks, but the smaller number would determine the number of students.
Day 4	a) Factor tree for 325
	325 25 13 5 5
	b) Factor tree for 208
	208 16 13
	c) $325 = 5^2 \times 13$; $208 = 2^4 \times 13$
Day 5	a) 36
i	b) Answers may vary.