Spiral 8/2 Math 8

Name:	
Date: _	Period:

1) Simplify: $2(3-x) - 12 + 4x$	2) Solve: 2x + 3x + 5 = 15	Answers
		1)
3) Solve: 3x – 5 = 16	4) Simplify: -6(2x-9)	2)
		3)
Ed 100 50 90 90 70 70 70 Jo 70 60 80 90 90 100 80	 6) Susan's weekly earnings are proportional to the number of hours she worked. How much money did 	4)
A. Ed's median is higher than Jo's median.B. Ed's median is lower than Jo's median.C. Ed's median is the same than Jo's median.	Susan earn per hour? Hours 5 7 9 11	5)
D. The median scores cannot be determined. 7) Alberto earned \$24.50 last week	\$ 47.50 66.50 85.50 104.50 8) Alan received \$50 for his birthday.	6)
delivering newspapers. He put \$7.35 in his savings account. Then he bought a	He then saved \$15 per week until he	7)
magazine for \$2.95 and a CD for	system. How many weeks did it take	8)
week, how much money does Alberto	nim to save the money?	9)
have left that is not in his savings account?		10)
9) The test scores for the students inMs. Waters' math class are shown here.	10) The following set of data shows the number of cars a company sold in the	11)
What is the range of test scores? 52 61 69 76 82 84 85 90 94	past 10 days. Find the mean. 1 5 3 2 1 0 4 2 6 1	12)
11) Find the perimeter of a rectangle with dimensions 14 ft. by 11 ft.	12) Simplify: (5 ² – 10) ÷ 5 X 2	13)
		14)
13) A 14 inch candle and a 20 inch candle are lit at 2:00pm. The 14in	14) Kylie bought some pencils. She paid \$1.24, including tax, per pencil.	15) GRID RESPONSE
The 20in. candle burns two inches every hour. The very hour. At what time will the two	She gave the cashier \$20 and received \$5.12 in change. How many pencils did Kylie purchase?	00000
candles be the same height?	ns in har niana book. Liam has finished	000000
the same percent of lessons from his piar How many lessons has Liam finished?	ns in her plano book. Liam has finished no book. His book contains 30 lessons.	
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Spiral 8/9 Math 8

Name:	
Date: _	Period:

1) Simplify: 4(2b – 4)	2) Simplify: 5(3x – 8)	Answers
		1)
3) Simplify: 2[(4 + 11) ÷(12 – 7)]	4) Solve: $\frac{x}{3} + 2 = 5$	2)
5) Find the volume of a cube with a side length of 8 centimeters.	6) Evaluate when x=3: $\frac{1}{3}x^2 + 2$	4)
7) If y–18=14, what is the value of 3(y+5)?	8) Solve: -2 = 5x + 3	5) 6)
9) The price of a theater ticket increased from \$7.50 to \$7.75. The theater sold 315 tickets at the higher	10) Which has the lowest price per ounce?	7) 8)
price. With the price increase, how much more did the theater earn on the tickets?	Hawkin's Store 60 \$6.50 Don's Store 54 \$5.50 Allen's Market 48 \$5.61	9)
11) Joe will go to the swimming pool on 20 different days this month. A one-	12) Michael started a savings account with \$300. After 5 weeks, he had \$350 dollars, and after 10 weeks, he had	10)
pass to the pool is \$30.00. How much money will Joe save by buying a monthly pass?	\$400. What is the rate of change of money in his savings account per week?	12) 13)
13) Marcy is taking two types of medicine. She takes one medicine every 6 hours. She takes the other	14) How 12 ft many square feet 6 ft	14)
medicine every 4 hours. She takes both medicines at 9:00 a.m. At what time will Marcy take both medicines together again?	of carpet are needed 12 ft to carpet the porch?	
15) The ratio of nitrogen to potassium in 36 units of nitrogen. How much potassium	a sample of soil is 12:9. The sample has m does the sample have?	

Spiral 8/16 Math 8

Name:		
Date:	Period:	

1) Simplify: 3(n – 8) + 12 + 2n	2) Simplify: $4 + (9 \cdot 2) \div (4 - 1) - 4$	Answers
		1)
3) Solve: 16 + x = 12	4) Solve: -4 = -17 + x	2)
		3)
5) Solve: $-2x + 6 = 28$	6) Solve: $-7 = 2x - 7$	4)
7) Jacob is 12 years younger than twice	8) The lowest point of the St. Lawrence	5)
Elizabeth's age. Jacob is 28 years old. How old is Elizabeth?	River is 294 feet below sea level. The top of Mt. Jacques Cartier is 1,277 feet above	6)
	sea level. How many feet higher is the top of Mt. Jacques Cartier than the lowest	7)
9) Find the perimeter of a square that	10) The square root of 64 is how much a set the C^2 4.2	8)
has an area of 144 m ⁻ .	smaller than 6 ⁻ · 4 ?	9)
11) Triangle A went through what type of	12) A bag contains orange blocks and pink blocks. The ratio of orange blocks to pink blocks is 2 to 11. If 121 pink blocks are in	10)
transformation to end at triangle B?	the bag?	11) 12)
13) Write 14/20 as a decimal.	14) What is the sum of the first 5	13)
	are numbers to the second power)	14)
reflected of the x-axis and then	7	15)
reflected over the y-axis. Which sequence of transformations would	6	
result in the same image?	4	
A. a reflection over the diagonal line y = x	-2	
B. rotation 180 degrees counterclockwise about the origin	-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 -1 -2	
C. reflection over the y-axis and a translation of 4 units down		
D. rotation 90 degrees clockwise about the origin and a translation of 4 units left	-6 -7	

Spiral 8/23 Math 8

Name:		
Date:	Period:	

1) Simplify: -10 + 7x + 24 - 2x	2) Simplify: -17 + 2(6x - 1) + 5	Answers
		1)
3) Solve: -23 = x - 23	4) Solve: -2x + 8 = -26	2)
$\sum \sum (x + y) = 17 = 22$	(1) Solver 10 = 2x + 6	3)
5) Solve: $4 + x - 17 = 22$	6) Solve: $-18 = -3x + 6$	4)
7) Find the side length of a square rug	8) Simplify: 3 ⁴	5)
that has an area of 169 square centimeters.		6)
9) Two parallel lines	10) What	7)
transversal. If	is the 82° measure,	8)
angle 4 is 97°, $\frac{5/6}{7/8}$	in degrees,	9)
measure of angle 1?	T?	10)
11) Given that the top and bottom lines	12) Given that the top and 48° $58^{\circ}/d^{\circ}$	11)
are parallel,	bottom lines are parallel, what is	12)
of angles a and d?	the measure of angle a?	13)
13) Use proper math vocabulary: Translations, reflections, and rotations	14) Triangle JKL has vertices J(2,4), K(3.1), and L(3.3). A translation maps	14)
create images that are always	the point J to J'(3,3). What are the coordinates of K'?	15) GRID RESPONSE
15) Solve for x. (HINT: write an equation	n setting (7x 11)°	
the sum of the angles equal to the numb degrees in a triangle.)	er of $(7x - 11)$ $(2x - 3)^{\circ}$ $(5x - 2)^{\circ}$	
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Spiral 8/30 Math 8

Name:		
Date:	Period:	

1) Simplify: $-4(x + 2) - \frac{1}{2}(2x - 6)$	2) Simplify: $20 - (4 \cdot 2) \div (5 - 3) - 2$	Answers
		1)
3) Solve: 47 = -2 - 7x	4) Solve: -3x = 15	2)
		3)
5) Solve: 2x + 12 - 7x = 2	6) Solve: 3x + 15 − 7x = −9	4)
		-)
7) The perimeter of a square is 24 inches. What is the area of the square?	8) A square has an area of 225 square inches. What is the square's	5)
	perimeter?	6)
9) Triangle ABC has vertices at A(1, 2),	10) Triangle ABC has vertices at A(1, 2),	7)
B(-3, 4), and C(5, 0). What would be the coordinates of B' after a dilation	B(-3, 4), and C(5, 0). What would be the coordinates of A' after a dilation	8)
with a scale factor of 0.5?	with a scale factor of 2.5?	9)
the origin and has vertices at D'(1.5, 3),	the value of x?	10)
E'(0, 1.5) and F'(-3, 1.5). If the original coordinates were D(1, 2), E(0, 1), and		11)
F(-2, 1), what is the scale factor?	38° x+2	12)
13) Angle 2 is $4 \sqrt{5}$	A (Mashing Control C	13)
congruent to 3 which angle?	What is 10 9 the sum 80°	10)
1 2 B	of angles	14)
	11? <u>11/2</u> <u>11/12</u>	15) GRID RESPONSE
15) What is the measure of angle x?	v ¹¹¹⁰ x 144 ^o z	

Spiral 9/6 Math 8

Name:		
Date:	Period:	

1) Simplify: -3(3y - 2x) + 2(5x - 4y)	2) Simplify: ½ (4x − 8) − 2(3x − 1)	Answers
		1)
3) Solve: $\frac{-x}{3} = 9$	11. Solve: 3x – 4 + 20 = 55	2)
		3)
5) Solve: 2x + 18 - 1 = 33	6) Solve: $-7 = -1 + \frac{x}{3}$	4)
		5)
7) SU sintersects TV	8) Angles T and V are complementary meaning they form a right angle. Angle	
at point R. What is the	T has a measure of (2x + 10)°. Angle V has a measure of 48°. What is the value	6)
value of x, in $3x - 15$	of x?	7)
degrees?		8)
9) Write an expression: six less than x	10) Write an expression: the quotient	9)
,	of fifteen and the product of two and x	10)
are the 4	scale factor?	11)
coordinates of C' after a		12)
dilation with		13)
of ½? A1 2 3 4 53		14)
13) Describe the transformation	14) Is triangle ABC	15) GRID RESPONSE
performed.	QRS? 7 R 15 28	
	a a b a b b b b c c c b c	
$\frac{1}{4 \cdot 3 \cdot 2 \cdot 1 \cdot 0} = \frac{1}{1 \cdot 2 \cdot 3 \cdot 4 \cdot 5 \cdot 6}$		$\bigcirc \bigcirc $
A W 24 V		
13 12		44444 66666
D 10 C		000000

Spiral 9/20 Math 8

Name:		
Date:	Period:	

1) Simplify: $\frac{1}{2}(2n+6)$	2) Simplify: 3x – (2x + 4) + 5	Answers	
		1)	
3) Solve: -19 = x - 19	4) Solve: $\frac{x+5}{2} = 10$	2)	
5) Solve: $2x + 5 = 21$	(c) Solve: $x + 7 - 2$	3)	
5) 50100. 28 5 21	$\frac{1}{5}$ = $\frac{1}{5}$ = $\frac{1}{5}$	4)	
7) A 5-lb bag of apples cost \$4.50, and	8) Which expression has the least value	5)	
an 8-lb bag of the same type of apples costs \$7.52. What is the difference in	when x = 100? A. $\frac{1}{x}$ B. $\frac{10}{x}$ C. 1 - x D. 10 - x	6)	
the unit prices? 9) Mr. O'Brien pays \$12,564 a year for	10) Square RSTU is inside trapezoid	7)	
rend. His rent is a constant amount each month. Which equations	RSVU. What is the measure, in degrees, R S	8)	
represents the amount he pays per month if m=months and c=total rent	of angle VSR?	9)	
paid for the year? A. 1047m = c B. 1047c = m		10)	
C. 1047+m=c D. m÷1047=c		11)	
the diagram are	What is the value of x?	12)	
complementary. What is the value $(4x)^{\circ}$		13)	
of x? $(2x + 6)^{\circ}$	$x^{\circ} \left(\frac{2}{3}x\right)^{\circ}$	14)	
	S T	15) GRID RESPONSE	
13) Martin ordered a pizza with a 16-	14) Janet can make 4/5 of a necklace in		
with a 20-inch diameter. What is the	necklaces, to the nearest tenth of a		
approximate difference in the area of	necklace, can Janet make in 1 hour?		
the 2 pizzas?			
A. 50in ² B.113in ² C. 201in ² D. 452in ²			
15) Kevin is paid \$8.80 per hour. He worked 7 hours. He gave his mother ¼ of his 3333000			

Spiral 9/27 Math 8

Name:	
Date: _	

_____Period: _____

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1) Simplify: -5(9 – 3x) - 9	2) Simplify: 8-3(1+3m)	
		1)
3) Solve: $4 = \frac{2}{7}x$	4) Solve: $\frac{-2}{5}x = 3$	2)
5) Solve: $\frac{3}{4}x + 4 = 22$	6) Solve: $-5 = \frac{3}{4}x - 2$	3)
-		
7) Tony bought a \$48 sweatshirt and	8) Which equation models the	4)
used a coupon for a 10% discount.	relationship show in the table?	5)
Keith bought an identical sweatshirt at		5)
a different store for \$42.95. Which	x 3 6 11	6)
statement is true?	y 163.5 327 599.5	•,
A. Tony paid \$0.25 less than Keith paid		7)
B. Tony paid \$4.95 less than Keith paid	A. y = 53x B. y = 53.5x	/ <u></u>
D. Keith paid \$4.95 less than Tony paid	C. y = 54x D. y = 54.5x	8)
9) Erica saw a skateboard on sale for	10) What is the missing	
\$59.95. The original price of the	acute angle 30	9)
skateboard was \$79.95. What is the	measurement?	
approximate percent discount?		10)
A. 20% B. 25% C. 75% D. 80%		
11) This 4 inches	12) The triangles below are similar.	11)
diagram	What is the measure of segment CD?	12)
is a scale	С,	12)
drawing ^{3 inches}	s N	13)
of a	30 ³ 7 inches	
store		14)
where 1 $I \leftarrow 2\frac{1}{4}$ inches $\rightarrow I$	10 inches 12.9 inches $100 - 30$ $B - D$	
inch = 16 feet. To the nearest 50 ft ² ,		15) GRID RESPONSE
what is the actual area of the actual	R T T	
A. 235011 B. 240011 C. 245011 D. 250011	14) This image	$\bigcirc 0 0 0 0 0$
1.0) $M(-1, 1)$ and $B(1, 0)$ What are the	shows a	
coordinates of B' after a dilation with a	rotation of	
scale factor of 4 5?	degrees	
	in a	<u> </u>
	direction.	
	B	
15) Triangle DOG has coordinates at D (-	1,-2), O(-3,3), and G (1,3). It's image	<u><u> </u></u>
after a dilation has coordinates at D' (-1.5	5, -3), O'(-4.5, 4.5) and G' (1.5, 4.5). What	000000
is the scale factor?		