Spiral Review – 7<sup>th</sup> Grade Math www.FCMScubs.pbworks.com Name: \_\_\_\_\_\_ Date: \_\_\_\_\_ Period: 2 3 4 5 6 7

	Date: Period: 2 3 4 5 6 7
Week 15	-
1. Sue wants to solve the following equation:	6. What is the value of the expression $3x^2 + 5y$ when
$\frac{x}{6} - 5 = 12$	x = 4 and y = 3?
6	
Will at stam should she take first?	
What step should she take first?	A. 27
A. Multiply both sides by 6.	B. 38
B. Subtract 12 by both sides.	C. 63
C. Subtract 5 by both sides.	D. 159
D. Add 5 to both sides.	MS7 1-9
MS7 12-1	
2. Use the order of operations to find which expression	7. Solve $4x - 8 + 6x - 12 = 10$
is true.	
A = 0 + 10(14 - 4) + C = 20C	A. 2
A. $8 + 12(14 - 4) + 6 = 206$	B. 3
B. $10 - 8 \times 6 + 7 = 26$	C. 4
C. $14 + 6(7 - 3) - 8 = 30$	D. 5
D. $4 + 5(6 + 2) - 5 = 66$	M87 10 1
MS7 1-5	MS7 12-1
3. What value of <i>y</i> makes the equation true?	8. A taxicab costs \$1.25 for the first mile and \$0.25 for
72.021 - y = -32.26	each additional mile. Write an equation for the total
	cost of a taxi ride if it is \$8.00, where x is the number
A. 104.282	of miles.
B. 39.761	
C. 104.281	A. $1.25x + 0.25 = 8.00$
D. 2.23	B. $1.25 + 0.25 = 8.00$
	C. $8.00x + 0.25 = 1.25$
MS7 1-11	D. $1.25 + 0.25x = 8.00$
	MS7 12-1
4. Which expression is equivalent to 24 <i>x</i> ?	9. Simplify: $-2(6a - 2b + 4c - 9)$
	A. $-12a - 2b + 4c - 9$
A. $2^2 \cdot 6x + 8x - 6$	B. $12a - 2b + 4c - 9$
B. $22x + 6x \cdot 3^2 \div 27$	C. $12a + 4b + 8c - 18$
C. $15(5x-3) - 12x$	D. $-12a + 4b - 8c + 18$
D. $12x + 3 \cdot 10x \div 2$	
MS7 1-9	MS7 1-9
5. When Nick entered the 5 <sup>th</sup> grade, he was $58\frac{1}{2}$ inches	10. Carla is collecting rainwater in a rain barrel.
tall. When he entered 6 <sup>th</sup> grade, he had grown $4\frac{3}{4}$	Currently she has 18 inches of water in the barrel. If
	rain is falling at a rate of 1.5 inches per hour, which
inches. How tall was Nick when he entered 6th grade?	expression can be used to model the number of inches
$\Lambda = 62^{\frac{1}{2}}$ inches	of rain in the barrel after <i>h</i> hours?
A. $62\frac{1}{4}$ inches	
B. $62\frac{1}{2}$ inches	A. 1.5h + 18
C. 63 inches	B. 18 – 1.5h
D. $63\frac{1}{4}$ inches	C. 1.5 + 18h
	D. $(1.5 + 18)h$
MS7 3-9	MS7 1-7

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Week 15	
11. According to the chart, how much material wouldJamie need to make a skirt and a matching cape?A. $6\frac{1}{2}$ yards	16. Jason earns \$12.50 per hour. He worked on a job from 9:30 AM to 5:00 PM. If he spent \$20 on materials for the job, how much money does he have left over?
B. 7 yards	
Skirt Shirt Shorts Cape	A. \$61.25
D $\frac{2}{6}$ $\frac{2}{8}$ $\frac{1}{3}$ $\frac{4}{6}$	B. \$86.25
D. 8 yards yards yards yards	C. \$93.75
MS7 3-9	D. \$73.75 MS7 1-10
12. Andy sees this lunch special in a restaurant	17. Solve.
window. Andy and two friends each order the special	3(z-1) + 8 = 14
plus one extra meatball. Which	
expression gives the total cost?	A. <i>z</i> = 3
Spaghetti Special	B. $z = 8^{1}/3$
A. 3•\$4.50 + 3•\$0.75	C. $z = -3$
B. $9 \cdot (\$4.50 + \$0.75)$ eat for \$4.50 per person,	
C. 3•\$4.50 + \$0.75	D. $z = -8^{1}/_{3}$
D. 3 • \$0.75 + \$4.50	
MS7 1-5	MS7 12-2
13. Solve and Simplify. $12\frac{2}{3} - 7\frac{3}{4}$	18. Which of the following equations does NOT have a solution of 5?
A. $\frac{59}{12}$ C. $4\frac{11}{12}$	A. $18 - n = 13$
B. $\frac{245}{12}$ D. $5\frac{1}{12}$	B. $15 = \frac{60}{n}$
$\begin{array}{ccc} \mathbf{D} & \mathbf{D} & \mathbf{J} \\ 12 & & 12 \end{array}$	C. $46 + n = 51$
	D. $8n = 40$
MS7 3-9	MS7 1-10
14. Which of the following equations does NOT have a solution of $x = 4$ ?	19. Look at the graph below. The graph represents the solution set of an inequality that has been solved for the variable <i>x</i> .
A. $13x = 52$ B. $x - 6 = 2$ C. $x + 16 = 20$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
D. $\frac{x}{2} = 2$	Part I: Write the solution set described in the graph.
MS7 1-10	4
15. What is the value of the expression $15s - 4t$ when $s = 6$ and $t = 2$ ?	Part II: Is it possible that the graph represents the solution for the inequality $-3x < 6$ ? Support your
A. 16 B. 19 C. 72	answer with words and a mathematical representation.
D. 82	
MS7 1-9	
	MS7 12-4