RISING MATH 7 SUMMER ASSIGNMENT 2018-2019

Name: _____

Please complete this work over summer and return to your Math 7 teacher the first week of class.

Complete a little each week.

SHOW ALL YOUR MATHEMATICAL THINKING!

The websites below contain tutorials, practice, and quizzes for review:

http://www.regentsprep.org
http://www.math.com
https://www.mathgoodies.com/lessons
http://education.jlab.org/solquiz/
https://www.khanacademy.org/math/cc-sixth-grade-math

WEEK 1 ~ NUMERIC EXPRESSIONS

Simplify each expression using the order of operations (GEMDAS).

1. $3(5) + 14 \div 2$
2. $\frac{(5 \cdot 8)}{10}$
3. $3 \cdot 6 - 4 \cdot 4$
4. $(8 - 3 + 1) \div 2$
5. $\frac{(8-3)}{5 \cdot 3}$
6. $16 - 4 \text{ x } 3$

Evaluate the expressions using absolute value.

7. $|-7|$
8. $|15|$
9. $|-3.5|$

Compare and Order Integers. Fill in the blank with a "<" or a ">"

10. 0 ____ -5
11. 10 ____ -11
12. -9____ 6

WEEK 2 ~ FRACTIONS, DECIMALS, AND PERCENTS

Multiply or divide the fractions.

13. $\frac{2}{3} \cdot \frac{9}{16}$
14. $\frac{4}{15} \cdot \frac{5}{8}$
15. $\frac{1}{4} \div \frac{3}{8}$
16. $\frac{3}{4} \div \frac{2}{3}$

Find the equivalent decimal and percent for each fraction.

17. $\frac{2}{5}$ 18. $\frac{3}{8}$ 19. $\frac{1}{4}$

Decimal: Decimal: Decimal:

Percent: Percent: Percent:

Write the fractions from above in order from greatest to least.
20.

_____, _____, _____

WEEK 3 ~ PROPERTIES OF REAL NUMBERS

Use the distributive property to rewrite the expression without parentheses.

21. $4(2+9)$ 22. $2(6-5)$ 23. $5(20+7)$

Identify which property is being used in each question:

Commutative Property of Addition	24. $8(0) = 0$
Commutative Property of Multiplication	25. $5 \cdot 1 = 5$
Associative Property of Addition	26. $7 + (2+9) = (7+2) + 9$
Associative Property of Multiplication	27. $2 \cdot \frac{1}{2} = 1$
Identity Property of Addition	28. $5 + 3 = 3 + 5$
Identity Property of Multiplication	29. $2 \cdot 6 = 6 \cdot 2$
Additive Inverse Property	30. $2(3) = 3(2)$
Multiplicative Inverse Property	31. $4 + (-4) = 0$
Zero Property of Multiplication	32. $0 + 12 = 12$

WEEK 4 ~ SOLVING EQUATIONS AND GRAPHING INEQUALITIES

Solve each equation for x using inverse operations.

33. $7x = 42$

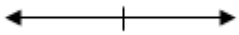
34. $x + 4 = 12$

35. $x - 3 = 12$

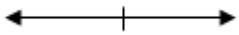
36. $\frac{x}{6} = 10$

Graph the solution of the inequality.

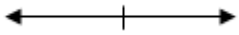
37. $y > 5$



38. $x < 3$



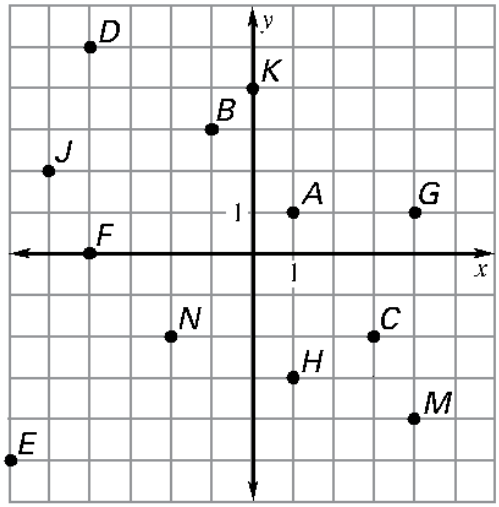
39. $x \leq 2$



WEEK 5 ~ COORDINATE PLANE

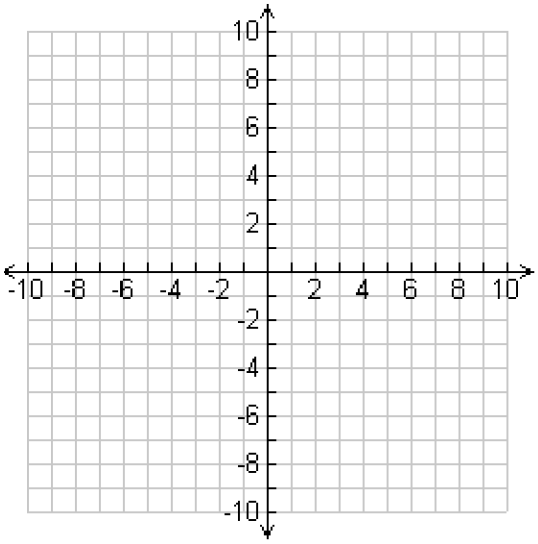
Give the coordinates of each of the following points as an ordered pair (x, y)

40. A
41. B
42. C
43. D
44. E
45. F
46. H
47. J
48. K
49. M
50. N



Plot each point on the coordinate plane to the right.

52. $A(-2,1)$
53. $B\ (2,-2)$
54. $C(0,-4)$
55. $D(2,0)$
56. $E(-5,-3)$
57. $F(1,3)$



WEEK 6 PROBABILITY AND STATISTICS

Find the probability of the following events occurring.
58.

- Rolling a 4 on a number cube
- Flipping a coin and landing on **heads**
- Rolling an odd number on a number cube

Create a tree diagram using the options below:
59.

Main Course	**Dessert**
Chicken Nuggets	Brownie
Hamburger	Cookie
Pizza	

60. Find the mean, median, mode, and range of the following test scores:

70, 35, 55, 80, 90, 88, 71, 70, 100, 82

Mean: Median:

Mode: Range:

WEEK 7 - GETTING TO KNOW YOU

61. What part of this packet did you find easy to complete?

_____

_____

62. Were there any parts that were difficult for you? If so, what?

_____

_____

63. What is something you enjoyed about math in sixth grade?

_____

_____

64. What is something you disliked about math in sixth grade?

_____

_____

65. How confident are you that you are ready for math 7?

_____

_____