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. $3(5)+14÷2$
 | 1. $\frac{(5⋅8)}{10}$
 | 1. $3⋅6-4⋅4$
 |
| 1. $(8-3+1)÷2$
 | 1. $\frac{(8-3)}{5⋅3}$
 | 1. $16-4$ x 3
 |

*Evaluate the expressions using absolute value.*

|  |  |  |
| --- | --- | --- |
| 1. $|-7|$
 | 1. $\left|15\right|$
 | 1. $|-3.5|$
 |

*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. $\frac{2}{3}⋅\frac{9}{16}$ | 14. $\frac{4}{15}⋅\frac{5}{8}$ |
| 15. $\frac{1}{4}÷\frac{3}{8}$ | 16. $\frac{3}{4}÷\frac{2}{3}$ |

 *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. $4\left(2+9\right)$ | 22. $2\left(6-5\right)$ | 23. $5(20+7)$ |

*Identify which property is being used in each question:*

|  |  |
| --- | --- |
| Commutative Property of Addition | 24. $8\left(0\right)=0$ |
| Commutative Property of Multiplication | 25. $5∙1=5$ |
| Associative Property of Addition | 26. $7+\left(2+9\right)=\left(7+2\right)+9$ |
| Associative Property of Multiplication | 27.$ 2∙\frac{1}{2}$=1 |
| Identity Property of Addition | 28. $5+3=3+5$ |
| Identity Property of Multiplication | 29. $2∙6=6∙2$ |
| Additive Inverse Property | 30. $2\left(3\right)=3(2)$ |
| Multiplicative Inverse Property | 31. $4+\left(-4\right)=0$ |
| 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* $\left(x, y\right)$



|  |
| --- |
| 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. $A\left(-2,1\right)$ |
| 53. $B \left(2,-2\right)$ |
| 54. $C\left(0,-4\right)$ |
| 55. $D\left(2, 0\right)$ |
| 56. $E\left(-5, -3\right)$ |
| 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?

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

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

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

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