

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

**7th Grade Advanced Math Summer Homework**

**Integers Review: NO CALCULATORS ALLOWED**

**\*{There will be a test after returning to school on these skills.}**

**Explain the rules for adding integers.** \_\_\_\_\_

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**Explain the rules for subtracting integers.** \_\_\_\_\_

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**Explain the rules for multiplying and dividing integers.** \_\_\_\_\_

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**PART A) Add the integers.**

1.  $15 + (-12)$

2.  $-18 + (-13)$

3.  $24 + (-29)$

4.  $-25 + 13$

5.  $17 + (-8)$

6.  $8 + (-5) + 5$

7.  $9 + (-12) + 10$

8.  $-2 + 19 + (-7)$

9.  $15 + (-11) + 10$

10.  $-17 + (-13)$

11.  $-9 + 9 + (-4)$

**PART B) Subtract the integers.**

**\*YOU MUST REWRITE EACH PROBLEM AS AN ADDITION  
PROBLEM FIRST, THEN SOLVE IT! Show all work.**

12.  $3 - 9$

13.  $-4 - 4$

14.  $-8 - 7$

15.  $5 - 17$

16.  $6 - (-6)$

17.  $5 - 9$

18.  $42 - (-31)$

19.  $-13 - 8$

20.  $4 - (-16)$

**Evaluate each expression if  $k = -3$ ,  $p = 6$ ,  $n = 1$ , and  $d = -8$ . Show all work and rewrite each problem as addition first.**

21.  $55 - k$

22.  $-p - 7$

23.  $d - 15$

24.  $n - 12$

25.  $-51 - d$

26.  $k - 21$

27.  $k - p$

28.  $n - d$

29.  $d - p$

**PART C) Multiply the integers. {NO CALCULATORS ALLOWED}**

30.  $4(-7)$

31.  $-14(-5)$

32.  $9(-12)$

33.  $27(-3)$

34.  $-11(-13)$

35.  $-55(0)$

36.  $-12(-4)$

37.  $(-3)^2$

38.  $(-8)^3$

39.  $(-5)(8)$

40.  $3(-1)$

41.  $-7(-4)(8)$

**PART D) Divide the integers. {NO CALCULATORS ALLOWED}**

42.  $42 \div (-7)$

43.  $45 \div (-5)$

44.  $-9 \div 3$

45.  $-64 \div (-8)$

46.  $-39 \div (-13)$

47.  $-121 \div 11$

48.  $\frac{-48}{12}$

49.  $\frac{-35}{7}$

50.  $\frac{-38}{-2}$

51.  $\frac{32}{-16}$

52.  $\frac{55}{-5}$

53.  $\frac{-63}{7}$

Evaluate each expression below if  $a = -2$ ,  $b = -7$ ,  $x = 8$ , and  $y = -4$ .

54.  $2y \div 1$

55.  $\frac{x}{ay}$

56.  $-y \div a$

57.  $x^2 \div y$

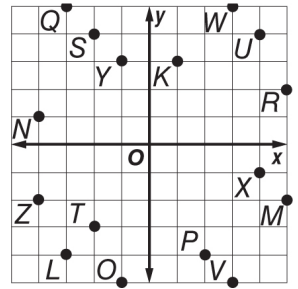
58.  $\frac{ab}{1}$

59.  $\frac{xy}{a}$

60.  $x \div y$

**PART E) The coordinate plane.**

Use the coordinate plane at the right. Identify the point for each ordered pair.



61.  $(-2, 4)$

62.  $(-2, -3)$

63.  $(4, 4)$

64.  $(3, -5)$

65.  $(3, 5)$

66.  $(4, -1)$

67.  $(-1, 3)$

68.  $(-4, -2)$

Use the coordinate plane above. Write the ordered pair that names each point. Then identify the quadrant where each point is located.

69.  $K$  {ex.  $(1,3)$  and it is in quadrant 1

70.  $L$

71.  $M$

72.  $N$

73.  $O$

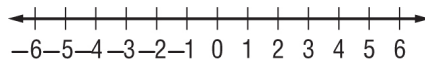
74.  $P$

75.  $Q$

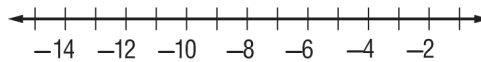
76.  $R$

Graph each set of integers on a number line.

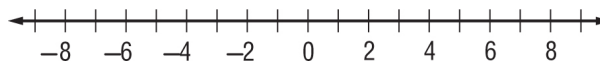
77.  $\{-4, -3, 1, 5\}$



78.  $\{-15, -12, -9, -2\}$



79.  $\{8, 3, -7, -5\}$



80.  $\{-14, -7, 10, -1\}$

