

Name: \_\_\_\_\_

**Summer Packet for Algebra 1**  
(Following Pre-Algebra course)

Due: Friday, August 28, 2026

Without using a calculator, complete this packet neatly in pencil,  
showing all of your work!!!

Integers – List the integer(s) that make the statement true. (Hint – absolute value is the number of spaces you move on the number line)

1.  $|3| =$

2.  $|-12| =$

3.  $|0| =$

4.  $|n| = 6$

5.  $-(5)$

6.  $-(-6)$

Find the sum.

7.  $-2 + (-17) =$

8.  $-26 + 26 =$

9.  $-51 + 48 =$

10.  $-8 + 9 =$

Find the difference as a sum. (Hint – Keep, Change, Change)

11.  $4 - 10 =$

12.  $14 - (-46) =$

13.  $0 - 20 =$

14.  $-48 - (-48) =$

Find the sum or difference.

15.  $6 + -7 + -3 =$

16.  $-8 + 1 + -1 =$

17.  $(-3 - 1) - 5 =$

18.  $9 + (-5 - 6) =$

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Find the product. (Hint – Multiply. Count your negatives – even amount is positive, odd amount is negative)

19.  $(2)(-8)(-6) =$

20.  $(-2)(0)(-12) =$

21.  $(-7)(-11) =$

22.  $(3)(-5)(6) =$

Find the quotient. (Hint – Same rules as multiplication)

23.  $144 \div (-12) =$

24.  $-54 \div (-18) =$

25.  $0 \div (-7) =$

26.  $100 \div 25 =$

Find the quotient. If there is no answer, EXPLAIN WHY! (Hint – it has something to do with a zero) – Choose 3

27.  $(-3 + 3) \div (-8 + 2) =$

28.  $(12 - 4) \div (4 - 12) =$

29.  $(-8 + 2) \div (-3 + 3) =$

30.  $(6 + 4) \div (4 - 6) =$

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Add or Subtract. Write the answer as a proper fraction in lowest terms or as a mixed number in simple form. (Hint – You need a common denominator to add/subtract.)

31.  $\frac{3}{4} + \frac{3}{4} =$

32.  $-3\frac{1}{4} - (-1\frac{1}{6}) =$

33.  $-1\frac{5}{6} + 2\frac{3}{8} =$

34.  $\frac{-11}{12} + \frac{13}{13} =$

35.  $8\frac{1}{8} - (-2\frac{1}{2}) =$

36.  $5 - \frac{3}{4} =$

Multiply or Divide. Write the answer as a proper fraction in lowest terms or as a mixed number in simple form. (Hint – You can cross cancel/cross reduce when you multiply/divide. Dividing is the same as multiplying by the reciprocal.)

37.  $\frac{-2}{5} \times \frac{-15}{16} =$

38.  $\frac{5}{8} \div 1\frac{4}{5} =$

39.  $5\frac{2}{5} \times \frac{5}{9} =$

40.  $-5\frac{5}{8} \div 10 =$

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### Order of Operations

(Hint – PEMDAS) Simplify the expression using order of operation.

41.  $35 - 14 \div 2 + 64 =$

42.  $54 \div 6 + 18 \times 2 =$

43.  $9 \times 2^3 + 7 \times 5^2 =$

44.  $(45 - 19)(8 + 7) =$

45.  $(12 + 18) \div (19 - 4) =$

46.  $\frac{9 + 4 \times 3}{7} =$

47.  $3 - 2 + 1 =$

48.  $8 \times 3 - 12 \div 3 =$

Simplify the following expression using order of operations. Show work!

49.  $5(18 + 12)$

50.  $21(10 - 7)$

51.  $3(8 + 2)$

52.  $10(3 - 8)$

53.  $-4(9 + -3)$

54.  $-2(-4 - 7)$

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Equations - Solve the following equations. Show your steps! (Hint – only use the inverse operation to move terms across the equal sign.)

55.  $15 = 3m - 8m$

56.  $9 = 10r - 16r + 5r$

57.  $32 - 4w = 0$

58.  $15 - c = 20$

59.  $55 - 3q - 2q = 10$

60.  $7f = 27 - 2f$

61.  $7p = 3p + 20$

62.  $4a - 7 = 18 - a$

63.  $34 = 3(t + 6) - 8$

64.  $9 - 4(x - 3) = 17$

65.  $15 - 6(x + 2) = 15$

66.  $\frac{3}{8}m + 9 = 18$