

## UNIT 1 TEST REVIEW: INTEGERS &amp; OPERATIONS

SIMPLIFY.

1. $18 - 5 \cdot 2 =$ _____	2. $6 + 2(4 + 3) =$ _____
3. $4 + 3 \cdot 2 + 10 \div 5 =$ _____	4. $8 \div 4 + 5 - 12 \div 3 + 4 \cdot 2 =$ _____
5. $\frac{15-3 \cdot 2}{11-4 \cdot 2} =$ _____	6. $\frac{3+4 \cdot 6+1}{2(6-4)} =$ _____
7. $4 + (9 - 3) \cdot 2^2 =$ _____	8. Name the integer that describes 50 meters above sea level.  _____
9. Name the integer that describes 6 feet below ground.  _____	10. Which number is larger?  -6 or -3
11. Which number is smaller?  -9 or -4	12. Which two numbers have an absolute value of 2?  _____ and _____
13. Which number is larger?   -14  or  -12	14. $3 -7  - 6 =$ _____

15. $- 10 - 2  =$ _____	16. $- -15 +  -9   =$ _____
17. $-8 + 2 =$ _____	18. $-3 + (5 - 9) =$ _____
19. $-7 - (-4) =$ _____	20. $-14 - 6 + 8 + 13 =$ _____
21. $11 - (8 - 15) =$ _____	22. $9 + 12 - 7 - 2 + 13 =$ _____
23. $(-3)(2)(-5) =$ _____	24. $(-8)(4) =$ _____
25. $-28 \div -7 =$ _____	26. $\frac{-24 \div -4}{-2} =$ _____
27. $\frac{-1}{3} \div \left(\frac{-1}{9}\right) =$ _____	28. $10 - 3 - [11 - (-4)] =$ _____

**Evaluate each expression when  $w = 12$ ,  $x = 5$ ,  $y = -6$ , and  $z = -4$ .**

29. $9x + y =$ _____	30. $2w - z + 3 =$ _____

31. $ x - 2z + (-w)  =$ _____	32. $2(x + w) - y =$ _____
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**Simplify each expression.**

33. $9r - 5r - 6r =$ _____	34. $3c - 8 + 6 - c =$ _____
35. $5a + 7a - 10b + 5b =$ _____	36. $9a - 2(6a + 3) =$ _____
37. $2(3t - 5) - 3(4t + 1) =$ _____	38. $5(2y + 3x) + 6(y + x) =$ _____

**Simplify each expression. THEN, evaluate for  $m = 3$ ,  $n = -4$ , and  $p = -2$ .**

39. $4m + 3n - 2m + n$	Simplest form: _____ Evaluation: _____
40. $7(m - n) - 3(p + 2m)$	Simplest form: _____ Evaluation: _____

$$41. -2(n + m) + 2n + 3m$$

Simplest form: \_\_\_\_\_

Evaluation: \_\_\_\_\_

**Name the property illustrated.**

$$42. 7 + (p + q) = (p + q) + 7$$

\_\_\_\_\_

$$43. 7(pq) = (7p)q$$

\_\_\_\_\_

$$44. 7(p + q) = 7p + 7q$$

\_\_\_\_\_

$$45. 7(p + q) = 7(q + p)$$

\_\_\_\_\_

$$46. 7 + (p + q) = (7 + p) + q$$

\_\_\_\_\_

### ANSWERS TO REVIEW

A collection of mathematical terms and numbers scattered across the page:

- 7
- 12
- 2c - 2
- 3
- 6
- m
- associative
- 8
- 39
- 25
- 1
- 37
- commutative
- 50
- 30
- 6t - 13
- 31
- 2r
- 3
- 32
- 28
- associative
- 3
- 20
- 21x + 16y
- 11
- 7
- 3
- distributive
- 3
- 28
- 3
- 18
- 2m + 4n
- 9
- 3
- 1
- 2 and -2
- 15
- 12a - 5b
- commutative
- 6
- 8
- 4
- 15
- 40
- 6
- |-14|
- 8
- 10
- 3a - 6
- 40
- 6
- m - 7n - 3p