

WORKSHEET # 2 [1.4, 1.5, 1.6, 1.7]

Add:

1. $-7 + (-16)$ [A] -9 [B] 9 [C] 23 [D] -23
[1] _____

2. $-23 + (-34)$
[2] _____

3. $3 + (-10)$ [A] -13 [B] 13 [C] 7 [D] -7
[3] _____

4. $5\frac{1}{5} + \left(-\frac{3}{10}\right)$ [A] $\frac{49}{10}$ [B] $\frac{11}{2}$ [C] $\frac{10}{49}$ [D] $-\frac{11}{2}$
[4] _____

5. Evaluate: $66 + (-35)$
[5] _____

6. George has a job driving a stationery store's truck. On a certain day, there were 18 boxes on the truck when he began his deliveries. He delivered 9 boxes and picked up 5 boxes from the store's distributors. How many boxes were on the truck at the end of the day?
[A] 9 [B] 27 [C] 14 [D] 4
[6] _____

7. An elevator started on the 7th floor. It went up 8 floors, down 5 floors, up 9 floors, and down 4 floors. On what floor did the elevator finally stop?
[7] _____

8. Find the additive inverse (opposite) of $\frac{1}{6}$. [A] $\left|\frac{1}{6}\right|$ [B] $-\frac{1}{6}$ [C] -6 [D] 6
[8] _____

9. $-|7| =$ [A] 7 [B] -7 [C] ± 7 [D] $-\frac{1}{7}$
[9] _____

10. Evaluate: $-|-7|$

[10] _____

11. Find the additive inverse of 1.5.

[11] _____

12. Find the additive inverse (opposite) of $-2\frac{5}{11}$.

[12] _____

13. Subtract: $-8 - 13$ [A] -21 [B] -5 [C] 21 [D] 5

[13] _____

Evaluate:

14. $24 - 22 - 17$

[14] _____

15. $25 - 25 - 15$

[15] _____

16. Write the verbal statement “a number increased by 19 is 186” as an algebraic equation. Use x for the variable.

[16] _____

17. The product of 2 and an unknown number is -16 . Which equation matches this situation?

[A] $\frac{x}{-16} = 2$ [B] $2x = -16$ [C] $\frac{2}{x} = -16$ [D] $-16x = 2$

[17] _____

18. Which of the following represents “four times a number, increased by 18 is 30”?

[A] $4x - 18 = 30$ [B] $4x + 18 = 30$ [C] $18x + 30 = 3$ [D] $30x - 18 = 4$

[18] _____

19. The product of -6 and an unknown number is -36 . Which equation matches this situation?

[A] $\frac{x}{-36} = -6$

[B] $-36x = -6$

[C] $\frac{-6}{x} = -36$

[D] $-6x = -36$

[19] _____

20. Write an equation for the statement. seventy-seven divided by a number is eleven

[A] $\frac{11}{x} = 7$

[B] $\frac{x}{77} = 11$

[C] $\frac{77}{x} = 11$

[D] $\frac{77}{11} = x$

[20] _____

21. Which of the following represents “four times a number, decreased by 15 is 32”?

[A] $32x - 15 = 4$

[B] $15x + 32 = 3$

[C] $4x - 15 = 32$

[D] $4x + 15 = 32$

[21] _____

22. Evaluate $x(y + z)$ for $x = 2$, $y = 3$, and $z = \frac{2}{3}$.

[22] _____

23. Does the number -11 satisfy the equation $1 = 12 - x$?

[23] _____

24. Which of the following statements satisfies the equation $2 = 9 - x$?

[A] $x = 11$

[B] $x = 7$

[C] $x = -11$

[D] $x = -7$

[24] _____

25. Evaluate $\frac{y}{3x} - z$ for $x = 5$, $y = 30$, and $z = 1$.

[25] _____

26. Evaluate the expression for $a = -2$ and $b = -8$.

$|a| + |5b|$

[A] 38

[B] -38

[C] -42

[D] 42

[26] _____

27. Evaluate the expression if $x = 4$, $y = 3$, and $z = 4$.

$\frac{10x - 4y}{8z - 5x}$

[27] _____

28. Evaluate $\frac{de}{d+e}$ when $d = 5$ and $e = 11$. [A] $\frac{511}{16}$ [B] 1 [C] $\frac{15}{4}$ [D] $\frac{55}{16}$

[28] _____

29. Find the product: $(-2)(2)(5)$ [A] 5 [B] -5 [C] -20 [D] 20

[29] _____

Multiply:

30. $-7.6 \cdot (-5.6)$

[30] _____

31. $-4.4 \cdot 4.4$ [A] -19.36 [B] 19.36 [C] -18.36 [D] 18.36

[31] _____

32. Find the product: $\left(-\frac{1}{10}\right)\left(-\frac{5}{7}\right)$

[32] _____

Evaluate:

33. $5x + y^2$ when $x = 7$ and $y = \frac{2}{3}$

[33] _____

34. $2y^2(x+y)$ when $x = -2$ and $y = 4$ [A] 64 [B] 192 [C] -192 [D] -64

[34] _____

35. $(x-3)^2 + 2xy^2 - 7$ when $x = 5$ and $y = 4$

[35] _____

36. Find the reciprocal of 9.

[36] _____

37. Find the reciprocal of $\frac{6}{23}$. [A] $\frac{17}{23}$ [B] 6 [C] 23 [D] $\frac{23}{6}$

[37] _____

38. Divide. $29.83 \div (-1.9)$

[38] _____

39. Find the quotient: $-\frac{152}{8}$

[39] _____

40. Divide: $2\frac{4}{7} \div 2\frac{1}{4}$ [A] $1\frac{1}{7}$ [B] $1\frac{1}{3}$ [C] $1\frac{8}{11}$ [D] $1\frac{5}{9}$

[40] _____

41. Evaluate $(2a \div 3 + 6) + 4b$ if $a = 6$ and $b = 6$.

[41] _____

42. Which property is illustrated by the following statement?

$$(1 + 3) + 4 = (3 + 1) + 4$$

[A] associative property of multiplication

[B] associative property of addition

[C] commutative property of addition

[D] commutative property of multiplication

[42] _____

43. Which property is illustrated by the following statement?

$$2 \cdot (4 \cdot 5) = (2 \cdot 4) \cdot 5$$

[A] associative property of multiplication

[B] associative property of addition

[C] commutative property of multiplication

[D] commutative property of addition

[43] _____

44. Use the distributive property to remove the parentheses: $5(4 - 5x)$

[44] _____

45. Which of the following is an example of the additive identity property?

[A] $-7 + 7 = 0$

[B] $6 + 1 = 7$

[C] $6 + 0 = 6$

[D] $7 \cdot 1 = 7$

[45] _____