

_____ 1. Which of the following statements is not true:

- a. $5t + y = y + 5t$
- b. $(8x - y) - m = 8x - (y - m)$
- c. $(6m + 4) + t = 6m + (4 + t)$
- d. $\frac{1}{2} \cdot 8 = \left(\frac{1}{2}m\right) \cdot 8$

_____ 2. Which statement is equivalent to: $6m + (x + y)$

- a. $6m + xy$
- b. $(x + y) + 6m$
- c. $6mx + 6my$
- d. $6x + (m + y)$

_____ 3. The formula for area (A) of a rectangle is $A = lw$. Find the area of a projection screen whose length (l) is 7 feet and whose width (w) is 18 feet.

Simplify:

4. $6x - 3a + x - 4a$

5. $8x - 4 - (6 - 3x)$

6. $6x^2 + x - 2(x^2 + 3x)$

Evaluate for given values of the variables:

_____ 7. $\frac{x+y}{4}$, for $x = -16$, $y = -4$

8. $4x^2 - x$, for $x = -3$

Simplify.

9. $-10 + 4$

10. $-7 - 10$

11. $(-6)(2)$

12. $5 + (-2) - 6 - (-8)$

13. $\frac{-24}{8}$

14. $-5(2)(-1)(-7)$

15. $1 - 12 - 3 + 5$

16. $\frac{10}{0}$

17. Write $-8(-8)(-8)$ in exponent notation.

18. Factor the following expression. $12x + 18$

19. Multiply using the distributive law. $4(2x - 3y - 1)$

20. Evaluate. -3^2

Simplify using order of operations.

21. $|-6 + 2|$

22. $3 \cdot 2^2$

23. $18 - (2 - 5)$

24. $6(2) + 3(-4)$

25. $-32 \div 4$

26. $-2(6) \div 3(2)$

27. $12 \div 4 - 2 \cdot 5$

28. $30 - 12 \div 12 - 6$

29. $25 - 2(3 - 4)$

30. $|2 - 7| + 3 \cdot 4$

31. $\frac{4 - 4}{3 - 8}$

32. $-8 - 3[5 - 2(4 - 1)]$

33. $(3 - 5)^2 - 6 + 1$

Extra Practice (Not required): p.76 Review Exercises 11-14,23-26, 42, 44, 46,49,52, 53, 56-63, 66-69

p. 78 Chapter 1 Test, 1, 3, 4, 5, 8-11, 16, 17, 23, 26, 28, 31, 32-38

*The answers to **all** these questions are in the back of the text.*

Answers: 1) B 2)B 3) 126 square feet 4) $7x - 7a$ 5) $11x - 10$ 6) $4x^2 - 5x$ 7) -5
8) 39 9) -6 10) -17 11) -12 12) 5 13) -3 14) -70 15) -9 16) undefined
17) $(-8)^3$ 18) $6(2x + 3)$ 19) $8x - 12y - 4$ 20) -9 21) 4 22) 12 23) 21 24) 0
25) -16 26) -8 27) -7 28) 23 29) 27 30) -7 31) 2 32) -5 33) -1