

1. What is the result when $\frac{3}{8}x + 2\frac{1}{5}$ is subtracted from $3\frac{1}{2}x - 4\frac{1}{10}$?
2. Which of these shows $\frac{-2(18x - 6y)}{-4}$ simplified?
 A. $(9x - 3y)$ B. $(-9x + 3y)$ C. $(16x - 8y)$ D. $(36x - 12y)$
3. Simplify: $8x - 11v + 17x + 5v$?
4. Simplify: $4r + 5s - 16r + 3s$?
5. Simplify: $-0.25(x - 6) - (0.5x + 2)$?
6. Simplify: $4(x - \frac{2}{3})$?
7. The production cost to make 10 shirts is modeled by the expression $1.8y + 5.5$ where y represents the number of meters of fabric needed to make the shirts. Which expression represents the production cost for one shirt?
 A. $0.18y + 0.55$
 B. $0.18y + 5.5$
 C. $1.8y + 0.55$
 D. $18y + 55y$
8. Simplify: $5(x + 2) - 7(x + 2)$?
9. Which of these expressions is equivalent to $6x - 10x + 20$?
 A. $2(3x + 5)$ B. $4(5 - x)$ C. $4(x - 5)$ D. $16x$
10. Simplify: $-1.42(3x - 5)$
11. Which expression is not equivalent to $4 \times \frac{3}{8}$?
 A. $4 \times (3 \times \frac{1}{8})$ B. $(4 \times 3) \times \frac{1}{8}$ C. $(4 \times \frac{1}{8}) \times 3$ D. $(4 \times 3) \times (4 \times \frac{1}{8})$
12. Simplify: $\frac{2}{3}(2x - 9)$

13. Simplify: $(6p + x + 2) + (3p - 3x - 5)$

14. Simplify: $\frac{-2}{9}x - \frac{1}{3}\left(6 - 3\frac{2}{3}x\right)$

15. Simplify: $\frac{2}{3}(12x + 6) - \frac{1}{2}(4x + 6)$?

16. Which answer shows the factored form of $-8wx + 2wz - 6w$?

A. $-12(w + x + z)$

B. $2w(4x - z + 3)$

C. $-8w(x + 2z - 6)$

D. $-2w(4x - z + 3)$

17. Which expression is equal to the following expression? $-\frac{5}{6}x - 4\left(\frac{3}{8}x + \frac{5}{4}y\right)$

A. $-\frac{7}{3}x + \frac{5}{4}y$

B. $-\frac{7}{3}x - 5y$

C. $-\frac{29}{16}x - 20y$

D. $-\frac{29}{16}x + \frac{5}{4}y$

18. A boat rental company has two kinds of boats, rowboats and motorboats. The expressions below represent the cost, in dollars, for renting each kind of boat for x number of hours.

Cost of a rowboat rental: $8.50x + 3$

Cost of a motorboat rental: $17.50x + 25$

Which expression shows how many more dollars it costs to rent a motorboat than a rowboat for x hours?

A. $8x + 22$

B. $9x + 22$

C. $9x + 28$

D. $26x + 28$

19. The Erie Canal in the United States is 60 miles longer than 3 times the length of the Suez Canal in Egypt. If the length of the Suez Canal is represented by the variable x , which expression below best represents the length of the Erie Canal?

A. $60(3x)$

B. $3x + 60$

C. $3x + 60$

D. $60 + 3 + x$

20. What is the value of the expression $7\frac{3}{5} + -8\frac{4}{7}$?