

1. Simplify. $20 \div 4(5)$

- A. 1 B. $\frac{20}{9}$ C. 25 D. 10

2. Simplify. $3 - 8 - 12$

- A. -7 B. 99 C. -1 D. -17

3. Simplify. $8 - 100 \div 10(5) - 4$

- A. 0 B. 2 C. -46 D. -2

4. Perform the indicated operation. Be sure your answer is in simplified form.

$$2\frac{5}{8} \cdot \frac{16}{63}$$

- A. $\frac{2}{3}$ B. $2\frac{10}{63}$ C. $\frac{42}{63}$ D. $\frac{20}{63}$

5. Perform the indicated operation. Write your final answer as a mixed number or whole number.

$$\left(1\frac{3}{4} \cdot \frac{8}{21}\right) + \frac{1}{2}$$

- A. $1\frac{2}{5}$ B. $1\frac{1}{6}$ C. 2 D. 4

6. Perform the indicated operation. Write your final answer as a mixed number or whole number.

$$\left(2\frac{1}{3} \cdot \frac{9}{28}\right) + \left(\frac{1}{5} \div \frac{3}{5}\right)$$

- A. $1\frac{3}{7}$ B. $1\frac{1}{4}$ C. 97 D. $1\frac{1}{12}$

7. Divide. Be sure your answer is in simplified form.

$$\frac{x^2}{5} \div \frac{x^4}{10}$$

- A. $\frac{10}{5x^2}$ B. $2x^2$ C. $\frac{2}{x^2}$ D. $\frac{x^6}{50}$

8. Divide. Be sure your answer is in simplified form.

$$\frac{3x^3}{5} \div \frac{9x}{25}$$

A. $\frac{27x^4}{125}$

B. $\frac{5x^4}{3}$

C. $\frac{5x^2}{3}$

D. $\frac{5x^3}{3}$

9. Divide. Be sure your answer is in simplified form.

$$\frac{4x}{7} \div \frac{7}{x}$$

A. 4

B. $\frac{4x^2}{7}$

C. $\frac{4}{49}$

D. $\frac{4x^2}{49}$

10. Solve. $3(x - 2) = 2(x + 1) + 2$

A. $x = 6$

B. $x = 9$

C. $x = 10$

D. $x = -2$

11. Solve. $-2(x - 4) = -3(x + 1)$

A. $x = 5$

B. $x = -11$

C. $x = 1$

D. $x = -\frac{1}{5}$

12. Solve. $5(x - 4) + 8 = -3(x + 2)$

A. $x = \frac{6}{8}$

B. $x = \frac{11}{4}$

C. $x = \frac{4}{3}$

D. $x = \frac{3}{4}$

13. Multiply. $(x + 1)(x - 2)$

A. $x - 2$

B. $x^2 - 2$

C. $x^2 - x - 2$

D. $x^2 - 3x - 2$

14. Multiply. $(2x + 3)(3x - 4)$

A. $6x^2 + x - 12$

B. $6x^2 - 17x - 12$

C. $-11x - 12$

D. $6x^2 - 12$

15. Multiply. $(4x + 1)(4x - 1)$

A. $16x^2 - 1$

B. $15x^2$

C. $8x^2 - 1$

D. $16x^2 + 8x - 1$

Answers:

1. C

2. D

3. C

4. A

5. B

6. D

7. C

8. C

9. D

10. C

11. B

12. D

13. C

14. A

15. A