

Applying Rational Numbers

Cumulative Test

Choose the best answer.

1. Which is a solution for the equation $w + 7 = -15$?

- A $w = -8$ C $w = -22$
B $w = 8$ D $w = 22$

2. Which pair of terms are *unlike* terms?

- F $2x^2$ and $2x^3$ H $5y$ and $7y$
G f^2 and $2f^2$ J $\frac{3}{w}$ and $8w$

3. Simplify $2x^2 - 6x^2 + 3x^2 + 7$.

- A $-11x^2 + 7$ C $x^2 + 7$
B $11x^2 + 7$ D $-x^2 + 7$

4. Evaluate $6n + 9 + 8n$ when $n = -3$.

- F 51 H -51
G -33 J 33

5. Multiply $3 \cdot (-20)$.

- A 60 C -60
B -19 D -23

6. Which fraction, in simplest form, is equivalent to 0.375?

- F $\frac{1}{8}$ H $\frac{3}{4}$
G $\frac{5}{9}$ J $\frac{3}{8}$

7. Jesse plays golf every 8 days and tennis every 6 days. If he did both today, in how many days will he do both again?

- A 2 C 12
B 8 D 24

8. Multiply $5 \cdot \frac{2}{5}$. Which is the answer in simplest form?

- A $\frac{10}{5}$ C $\frac{1}{2}$
B 2 D 4

9. Divide $12\frac{1}{2} \div 3\frac{1}{8}$. Which is the answer in simplest form?

- F $\frac{1}{4}$ H 4
G $\frac{50}{16}$ J $\frac{25}{4}$

10. Subtract $\frac{3}{5} - \frac{3}{6}$. Which is the answer in simplest form?

- A $\frac{1}{10}$ C $\frac{3}{4}$
B $\frac{3}{30}$ D $\frac{3}{10}$

11. Evaluate $n - 12$ for $n = 21$.

F 7

H 33

G 9

J 252

12. Write "the difference of 5 and a number" as an algebraic expression.

A $n - 5$

C $5 - n$

B $5 + n$

D $n + 5$

13. Combine like terms in the expression $a + b - 3a - 5b$.

F $-4a - 6b$

H $-2a - 4b$

G $2a - 4b$

J $-4a + 6b$

14. Determine which number is a solution of $x - 6 = 23$.

A 138

C 17

B 29

D 7

15. Solve the equation $r + 9 = -7$.

F $r = 16$

H $r = -2$

G $r = 2$

J $r = -16$

16. Solve the equation $t \div 3 = 2$.

A $t = 9$

C $t = 5$

B $t = 6$

D $t = 1$

17. Solve the equation $7z = 63$.

F $z = 70$

H $z = 9$

G $z = 8$

J $z = 441$

Applying Rational Numbers

Cumulative Test

18. Find the opposite of -8 .
- A -8 C 8
B $1 \div 8$ D 0
19. Add $-5 + (-4) + 3$.
- F 12 H 4
G -6 J 2
20. Evaluate the expression $x + y$ for $x = 19$ and $y = -7$.
- A 12 C -12
B 26 D -26
21. Solve the equation $6c = 42$.
- F $c = 252$ H $c = 7$
G $c = 36$ J $c = 4$
22. Find the difference $-5 - 7$.
- A -12 C 2
B -2 D 12
23. Find the product of $-6 \cdot 8$.
- F -48 H 2
G -2 J 48
24. Evaluate the expression $x - y$ for $x = 24$ and $y = -19$.
- A 5 C 43
B -5 D -43
25. Evaluate the expression $x \cdot y$ for $x = -3$ and $y = -24$.
- F 27 H 72
G -27 J -72
26. Add $\frac{5}{12} + \frac{1}{12}$. Which is the answer in simplest form?
- F $\frac{6}{12}$ H $\frac{1}{2}$
G $\frac{6}{24}$ J $\frac{1}{4}$
27. Simplify $-|-15|$.
- A 15 B -15
28. Solve $\frac{1}{2} + x = \frac{3}{4}$. Which is the answer in simplest form?
- F $\frac{1}{8}$
G $\frac{1}{4}$
H $\frac{1}{2}$
J $\frac{7}{8}$

Name _____ Date _____ Class _____

|

Name _____ Date _____ Class _____

Applying Rational Numbers

Name _____ Date _____ Class _____

Name _____ Date _____ Class _____