

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**Simplify.**

1) $\left| 1\frac{1}{23} \right|$ 1) _____

A) 24

B) $1\frac{1}{23}$ C) $\frac{23}{24}$ D) $-1\frac{1}{23}$

2) $\left| -1\frac{1}{22} \right|$ 2) _____

A) $1\frac{1}{22}$ B) $-1\frac{1}{22}$ C) $\frac{22}{23}$

D) 23

Indicate whether the equation illustrates the additive identity property, multiplicative identity property, additive inverses, or multiplicative inverses.

3) $4 + (-4) = 0$ 3) _____

A) Additive inverse

B) Multiplicative identity

C) Additive identity

D) Multiplicative inverse

4) $\frac{1}{9} \cdot 9 = 1$ 4) _____

A) Additive inverse

B) Additive identity

C) Multiplicative identity

D) Multiplicative inverse

Indicate whether the equation illustrates the commutative property of addition, commutative property of multiplication, associative property of addition, associative property of multiplication, or the distributive property.

5) $8a + 8b = 8(a + b)$ 5) _____

A) Commutative property of multiplication

B) Commutative property of addition

C) Associative property of addition

D) Distributive property

6) $\frac{2}{3} \left(\frac{1}{5} \cdot \frac{7}{9} \right) = \left(\frac{2}{3} \cdot \frac{1}{5} \right) \frac{7}{9}$ 6) _____

A) Commutative property of multiplication

B) Distributive property

C) Associative property of addition

D) Associative property of multiplication

$$7) -\frac{7}{8} + \frac{1}{2} = \frac{1}{2} + \left(-\frac{7}{8}\right)$$

7) _____

- A) Commutative property of addition
- B) Associative property of multiplication
- C) Associative property of addition
- D) Commutative property of multiplication

Evaluate.

8) -72

- A) 49
- B) -49
- C) -343
- D) -14

8) _____

9) $(-0.5)^3$

- A) 1.25
- B) -1.25
- C) -0.125
- D) 0.125

9) _____

10) $(-2.4)^2$

- A) 0.576
- B) 5.76
- C) -0.48
- D) 57.6

10) _____

Evaluate the root.

11) $\sqrt[4]{16}$

- A) 2
- B) {}
- C) 4
- D) 3

11) _____

12) $\sqrt[3]{\frac{56}{7}}$

- A) $\frac{1}{8}$
- B) 4
- C) 8
- D) 2

12) _____

Evaluate using the order of operations.

13) $\frac{9}{7}\left(-\frac{2}{3}\right) + \left(\frac{1}{4} - \frac{2}{5}\right) \div \sqrt{\frac{4}{64}}$

13) _____

- A) $-\frac{61}{140}$
- B) $-\frac{51}{140}$
- C) $\frac{9}{35}$
- D) $-\frac{51}{35}$

14) $10.4 - 15 \cdot \sqrt{1.69} + (71.5 - 84.3)$

14) _____

- A) -21.9
- B) -23.1
- C) -20.6
- D) -20.9

15) $\frac{62 + (12 - 6)^2}{24 \div 4 - (4 + 1)}$

15) _____

- A) 12
- B) 1950
- C) 72
- D) 36

16) $\frac{-3(82) - 8(9 - 8)}{-8(2 - 9) \div (-7)}$

16) _____

- A) 25
- B) -25
- C) 41
- D) -41