

Practice

Directions: For questions 1 through 6, write the property that is represented by the given equation.

1. $0 + \frac{7}{12} = \frac{7}{12}$

Addition Property of 0
Identity Property of Addition

2. $5.4 + 2.9 = 2.9 + 5.4$

Commutative Property of +

3. $(9\frac{1}{2} + 3\frac{3}{4}) + 4\frac{1}{4} = 9\frac{1}{2} + (3\frac{3}{4} + 4\frac{1}{4})$

Associative Prop. of +

Identity Property of addition or

4. $-6.1 + 0 = -6.1$

Addition Property of 0

5. $\frac{-9}{10} + \frac{1}{2} = \frac{1}{2} + (\frac{-9}{10})$

Commutative Prop. of +

6. $8.2 + (4.9 + 3.8) = (8.2 + 4.9) + 3.8$

Associative Prop. of +

Directions: For questions 7 through 10, complete each equation to make it a true statement.

7. $(5.5 + 7.1) + 6.5 = 5.5 + (7.1 + \underline{6.5})$

Associative

8. $-21 + \underline{0} = -21$

Additive Identity

9. $\frac{3}{8} + \frac{7}{8} = \underline{\frac{7}{8}} + \frac{3}{8}$

Comm.

10. $(2\frac{3}{10} + 7\frac{1}{5}) + 9\frac{7}{10} = 2\frac{3}{10} + (\underline{7\frac{1}{5}} + 9\frac{7}{10})$

Associative

Practice

Directions: For questions 1 through 6, write the property that is represented by the given equation.

1. $1 \cdot \frac{4}{5} = \frac{4}{5}$ Mult. Property of 1 or Identity Prop. of Multiplication

2. $3.4 \cdot 6.9 = 6.9 \cdot 3.4$ Commutative Prop. of mult

3. $(\frac{21}{2} \cdot \frac{33}{8}) \cdot 5\frac{1}{3} = \frac{21}{2} \cdot (\frac{33}{8} \cdot 5\frac{1}{3})$ Assoc. Prop. of mult

4. $-\frac{4}{5} \cdot \frac{3}{4} = \frac{3}{4} \cdot (-\frac{4}{5})$ Comm. Prop. of mult

5. $2.5 \cdot (2 \cdot 6.3) = (2.5 \cdot 2) \cdot 6.3$ Assoc. Prop. of mult

6. $\frac{1}{4} \cdot (\frac{5}{6} + \frac{1}{2}) = (\frac{1}{4} \cdot \frac{5}{6}) + (\frac{1}{4} \cdot \frac{1}{2})$ Distributive Prop.

Directions: For questions 7 through 11, complete each equation to make it a true statement.

7. $(3.5 \cdot 6.4) \cdot 5.2 = 3.5 \cdot (6.4 \cdot \underline{5.2})$ Assoc.

8. $-17 \cdot \underline{1} = -17$ Mult. Identity Prop. of 1

9. $1\frac{3}{10} \cdot 2\frac{4}{5} = \underline{2\frac{4}{5}} \cdot 1\frac{3}{10}$ Comm Prop.

10. $(\frac{2}{3} \cdot \frac{1}{5}) \cdot 15 = \frac{2}{3} \cdot (\underline{\frac{1}{5}} \cdot 15)$ Assoc. Prop.

11. $2.8 \cdot (5.6 + \underline{8.4}) = 2.8 \cdot 5.6 + 2.8 \cdot 8.4$ Dist. Prop.