Reteach

Decimal Equations

You can write related equations for addition and subtraction equations.

\[ 7.4 + 6.2 = 13.6 \quad 13.6 - 6.2 = 7.4 \]

Use related equations to solve each of the following.

**A.** \[ x + 4.5 = 7.9 \]

Think: \[ 7.9 - 4.5 = x \]

\[ x = 3.4 \]

Check: \[ x + 4.5 = 7.9 \]

\[ 3.4 + 4.5 = 7.9 \] substitute

\[ 7.9 = 7.9 \]

**B.** \[ x - 0.08 = 6.2 \]

Think: \[ 6.2 + 0.08 = x \]

\[ x = 6.28 \]

Check: \[ x - 0.08 = 6.2 \]

\[ 6.28 - 0.08 = 6.2 \] substitute

\[ 6.2 = 6.2 \]

Use related facts to solve each equation. Then check each answer.

1. \[ x + 8.7 = 12.9 \]
2. \[ x + 8.4 = 16.6 \]
3. \[ x - 2.65 = 7.8 \]
4. \[ x - 0.8 = 2.3 \]

You can write related equations for multiplication and division equations.

\[ 3.2 \cdot 2.4 = 7.68 \quad 7.68 \div 2.4 = 3.2 \]

Use related equations to solve each of the following.

**C.** \[ 3x = 1.5 \]

Think: \[ 1.5 \div 3 = x \]

\[ x = 0.5 \]

Check: \[ 3x = 1.5 \]

\[ 3 \cdot 0.5 = 1.5 \] substitute

\[ 1.5 = 1.5 \]

**D.** \[ x \div 6 = 1.2 \]

Think: \[ 1.2 \cdot 6 = x \]

\[ x = 7.2 \]

Check: \[ x \div 6 = 1.2 \]

\[ 7.2 \div 6 = 1.2 \] substitute

\[ 1.2 = 1.2 \]

Use related facts to solve each equation. Then check each answer.

5. \[ x \div 3 = 6.3 \]
6. \[ x \div 0.2 = 3.4 \]
7. \[ 7x = 4.2 \]
8. \[ 5x = 4.5 \]