

Alg 1 2.3

Solve equations involving more than one operation

Solve consecutive integer problems

Order of operations: what we DO

Solving: what we UNDO

Square puzzle (if time)

$$3 \cdot -5 + 7 = -8 \quad \text{✓}$$
$$-15 + 7 = -8$$

Solve each equation. Check your solution.

11.  $3t + 7 = -8$

$$\begin{array}{r} -7 \quad -7 \\ \hline \end{array}$$

$$\frac{3t}{3} = \frac{-15}{3}$$

$$t = -5$$

12.  $8 = 16 + 8n$

13.  $-34 = 6m - 4$

4.  $\frac{3}{2}a - 8 = 11$

5.  $8 = \frac{x-5}{7}$

6.  $\frac{c+1}{-3} = -21$

7. **NUMBER THEORY** Twelve decreased by twice a number equals  $-34$ . Write an equation for this situation and then find the number.

$a = \text{number}$

Write an equation and solve each problem.

$$17 = 6 \cdot 5 - 13$$
$$17 = 30 - 13$$

24. Fourteen less than three fourths of a number is negative eight. Find the number.

25. Seventeen is thirteen subtracted from six times a number. What is the number?

$$\frac{3}{4} \cdot 8 - 14 = -8$$
$$\frac{3}{4} \cdot a - 14 = -8$$
$$+14 \qquad +14$$

$$\frac{\frac{3}{4} \cdot a = 6}{\frac{3}{4} \qquad \frac{3}{4}} \qquad a = 8$$

$$17 = 6n - 13$$
$$+13 \qquad +13$$

$$\frac{30 = 6n}{6 \qquad 6} \qquad n = 5$$

Square puzzle (if time)

