Name _____ Date _____

Another Look

For use with Lesson 3-3.

Solving Two-Step Equations

Solve two-step equations by undoing the operations one at a time. First add or subtract, then multiply or divide.

$$-3x - 5 = -17$$
$$-3x - 5 + \mathbf{5} = -17 + \mathbf{5}$$
$$-3x = -12$$
$$\frac{-3x}{\mathbf{-3}} = \frac{-12}{\mathbf{-3}}$$
$$x = 4$$

5 has been subtracted, so add 5 to each side.

x has been multiplied by -3, so divide each side by -3.

Check: $-3 \cdot 4 - 5 = -12 - 5 = -17$

Solve.

1. $2x - -5 = 3$

Add -5.

$2x - -5 + -5 = 3 + -5$

$2x = -2$

Divide by 2. $\frac{2x}{2} = \frac{-2}{2}$

$x = -1$

2. $4x - 1 = -9$

Add 1.

$4x - 1 + \square = -9 + \square$

$4x = -8$

Divide by 4. $\frac{4x}{4} = \frac{-8}{4}$

$x =$ _____

3. $-3x - 2 = -14$

$-3x - 2 + 2 = -14 + 2$

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$x =$ _____

4. $-2x - 2 = 4$

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5. $4x + 16 = 8$

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6. $5x + -2 = 8$

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