Name: KEY Date: _____

BLM 10–5

Practice (6.1B)

1. Solve ~~by inspection~~.

a) $7n = -28$

$\frac{7n}{7} = \frac{-28}{7}$

$n = -4$

b) $10 = \frac{r}{-2}$

$\times(-2) \quad \times(-2)$

$-20 = r$

c) $\frac{y}{6} = 9$

$\times 6 \quad \times 6$

$y = 54$

d) $15 = -5c$

$\frac{15}{-5} = \frac{-5c}{-5}$

$-3 = c$

2. Draw a diagram to model each equation. Then, solve.

a) $2x = 6$

$\frac{2x}{2} = \frac{6}{2}$

$x = 3$

b) $\frac{x}{-4} = -2$

$\times(-4) \quad \times(-4)$

$x = 8$

c) $\frac{x}{3} = -4$

$\times 3 \quad \times 3$

$x = -12$

d) $-5x = -5$

$\frac{-5x}{-5} = \frac{-5}{-5}$

$x = 1$

3. Use the opposite operation to solve each equation. Check your answer.

a) $64 = 8d$

$\frac{64}{8} = \frac{8d}{8}$

$8 = d$

b) $-44 = \frac{p}{-4}$

$\times(-4) \quad \times(-4)$

$176 = p$

c) $\frac{e}{7} = -16$

$\times 7 \quad \times 7$

$e = -112$

d) $-6y = -72$

$\frac{-6y}{-6} = \frac{-72}{-6}$

$y = 9$

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(continued)

4. Show whether $x = -15$ is the solution to each equation.

a) $7x = -105$

$7(-15) = -105$

$-105 = -105$ ✓

b) $1 = \frac{x}{-15}$

$1 = \frac{(-15)}{-15}$

$1 = 1$ ✓

c) $\frac{x}{-3} = -5$

$\frac{(-15)}{-3} = -5$

$5 = -5$ ✗

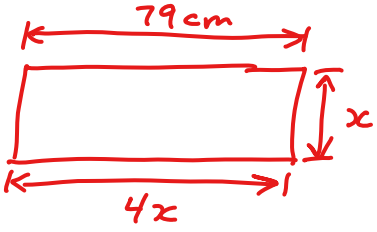
d) $-90 = -6x$

$-90 = -6(-15)$

$-90 = 90$ ✗

5. The length of a skateboard is about 4 times its width. The length of Mika's skateboard is 79 cm.

a) Write an equation to model this situation.



$4x = 79$

b) What is the width of Mika's skateboard? Check your answer.

$\frac{4x}{4} = \frac{79}{4}$

$x = 19\frac{3}{4}$

CHECK:

$4x = 79$

$4\left(19\frac{3}{4}\right) = 79$

$4\left(\frac{79}{4}\right) = 79$

$79 = 79$ ✓