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BLM 8–8

Section 8.4 Extra Practice

1. Solve and check each of the following.

a) $0.4x = 5.58 - 0.2x$

$0.4x + \_\_\_\_\_ = 5.58 - 0.2x + \_\_\_\_\_$

$\_\_\_\_\_x = 5.58$

$\frac{\square}{\square} = \frac{5.58}{\square}$

$x = \_\_\_\_\_$

Check:

Left Side	Right Side
$0.4x$	$5.58 - 0.2x$
$= 0.4(\_\_\_\_\_)$	$= 5.58 - 0.2(\_\_\_\_\_)$
$= \_\_\_\_\_$	$= 5.58 - \_\_\_\_\_$
	$= \_\_\_\_\_$

Subtract $2.3x$ from each side.

b) $7.2 + 2.3x = 3.2x$

Check:

Left Side	Right Side

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(continued)

c) $\frac{x}{6} - \frac{9}{2} = \frac{2x}{3}$

Multiples of 2: _____

Multiples of 3: _____

Multiples of 6: _____

Check:

Left Side	Right Side
$\frac{x}{6} - \frac{9}{2}$	$\frac{2x}{3}$
$= \frac{\square}{6} - \frac{9}{2}$	$= \frac{2\left(\square\right)}{3}$
$= \frac{\square}{6} - \frac{\square}{6}$	$=$ _____
$= \frac{\square}{6}$	
$=$ _____	

d) $1.4m = 1.5m - 0.57$

Check:

Left Side	Right Side

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2. Solve each of the following.

a) $\frac{1}{2}x - 1 = \frac{1}{4}x + \frac{3}{4}$

$$\_\_\_\_\_\left(\frac{1}{2}x\right) - \_\_\_\_\_(1) = \_\_\_\_\_\left(\frac{1}{4}x\right) + \_\_\_\_\_\left(\frac{3}{4}\right)$$

b) $5n - 6 = 3n + 2$

Subtract $3n$ from each side.

Add 6 to each side.

Divide by the number in front of the variable.

c) $2.3m + 12.8 = 1.3m + 64.2$

d) $\frac{2}{3}n + 4 = \frac{1}{2}n - 3$

$$\_\_\_\_\_\left(\frac{2}{3}n\right) + \_\_\_\_\_(4) = \_\_\_\_\_\left(\frac{1}{2}n\right) - \_\_\_\_\_(3)$$

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3. Solve each of the following.

a) $\frac{(m+1)}{2} = \frac{(m-2)}{5}$

$\_\_\_\_\_\left(\frac{(m+1)}{2}\right) = \_\_\_\_\_\left(\frac{(m-2)}{5}\right)$

b) $5(2x + 1.2) = 4(x - 1.5)$

c) $0.3(2x - 1) - 2.3 = 0.4(x + 5)$

d) $\frac{4m-3}{3} = \frac{3+m}{2}$

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(continued)

4. The cash register in the school canteen contains x quarters and $(30 - x)$ dimes. If the total value of the coins is $5.85, how many of each kind of coin are there?

	Quarters	Dimes
Value		
Expression		
Total Value		

Total value of quarters + total value of dimes = 5.85

_____ + _____ = 5.85

Sentence:_____

Check:

Value of Quarters = 0.25(_____)

= _____

Value of Dimes = 10(30 – _____)

= _____

Total Dollar Value: _____

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