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BLM 8–6

Section 8.2 Extra Practice

1. Solve each equation. Use a method of your choice.

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

b) $\frac{m}{2.5} + 0.5 = 0.8$

2. Solve and check the equation.

$3m + \frac{1}{2} = 2\frac{3}{4}$

Write the mixed number as an improper fraction.

Isolate the variable.

Check:

Left Side	**Right Side**
$3m + \frac{1}{2}$ $= 3\left(\frac{\square}{\square}\right) + \frac{1}{2}$	$2\frac{3}{4}$

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(continued)

3. Solve by multiplying by a common multiple. Leave your answer as a fraction.

a) $\frac{1}{2}x + \frac{1}{3} = \frac{7}{6}$

Multiples of 2: _____

Multiples of 3: _____

Multiples of 6: _____

_____ × $\frac{1}{2}x$ + _____ × $\frac{1}{3}$ = _____ × $\frac{7}{6}$

b) $4c + \frac{2}{3} = \frac{-1}{6}$

Multiples of 3: _____

Multiples of 6: _____

_____ × $4c$ + _____ × $\frac{2}{3}$ = _____ $\left(\frac{-1}{6}\right)$

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4. Solve each equation.

a) $\frac{n}{-0.6} + 0.23 = 1.93$

b) $0.2x + 2.4 = -9.2$

5. Create an equation for each of the following. Then, solve your equation.

a) When a number is tripled, then increased by 13, the result is 82. Find the number.

Variable: Let _____ = the number

Equation: _____

Solve:

b) The cost of a banquet at Nick's Catering is $215 plus $27.50 per person. If the total cost of a banquet was $2827.50, how many people were invited?

Let p = the number of people attending.

Total banquet cost = initial fee + cost per person

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