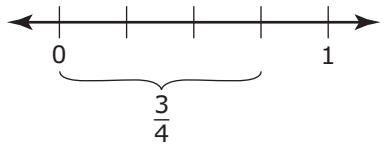
Name: _____ Date: _____

BLM 8–4

Section 8.1 Extra Practice

1. Model the solution to the equation $3x = \frac{3}{4}$ using a number line.



2. Solve $3x = 0.6$.
Use a cup, paper clip, and coin model to show your work.

3. Solve each equation algebraically.

a)

$$3x = \frac{2}{5}$$

$$\frac{3x}{\square} = \frac{2}{5} \div \_\_\_\_\_$$

$$x = \frac{2}{5} \times \frac{\square}{\square}$$

$$x = \frac{\square}{\square}$$

b)

$$\frac{m}{5} = \frac{-2}{3}$$

$$\_\_\_\_\_ \times \frac{m}{5} = \_\_\_\_\_ \times \left(-\frac{2}{3}\right)$$

$$m = \frac{\square}{\square}$$

ISBN: 978–0–07–000219–7

Name: _____ Date: _____

BLM 8–4
(continued)

c) $2y = \frac{3}{5}$

d) $\frac{y}{2} = \frac{3}{8}$

4. Solve each equation. Check each solution.

a) $-4x = -4.96$

Check:

Left Side	**Right Side**

b) $\frac{x}{0.7} = 2.1$

Check:

Left Side	**Right Side**

c) $\frac{-5}{m} = \frac{1}{3}$

Check:

Left Side	**Right Side**

ISBN: 978–0–07–000219–7

Name: _____ Date: _____

5. Solve each problem using the method of your choice.

a) Carol wants to buy a diamond bracelet. She cannot afford to pay for it all at once. Instead, she pays a deposit of 15% of the price of the diamond bracelet. Her deposit is $73.50. What is the full price of the bracelet?

Let r = regular price

Deposit = 15% of the regular price

Sentence: _____

b) Eric has a job after school during the week and on weekends. On the weekend, he earned $\frac{2}{5}$ of his total pay. He earned $620. What were his total earnings for the week and the weekend?

Let t = total pay

Weekend earnings = $\frac{2}{5}$ of his total pay

Sentence: _____

ISBN: 978–0–07–000219–7

Name: _____ Date: _____

c) Jamal received a 20% discount when he purchased his computer. He paid $920. What was the regular price of the computer?

Let r = regular price

Sale Price = 80% of regular price

Sentence: _____

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