# **14.4** Solving Proportions

Today's Learning Goals:

- I can solve proportions using multiplication or the Cross Products Property.
- I can use a point on a graph to write and solve proportions.

#### **Do Now**

- 1) Write a proportion to find how many points a student needs to score on the test to get the given score.
  - a) test worth 80 points; test score of 80%

b) test worth 150 points; test score of 96%

#### **Review**

Solve the missing variable in the proportion mentally.

2) 
$$\frac{5}{8} = \frac{20}{d}$$
 3)  $\frac{7}{z} = \frac{14}{10}$  4)  $\frac{21}{24} = \frac{x}{8}$ 

#### **Review**

Solve the missing variable.

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5  $\frac{3}{5} = \frac{6}{10}$   
Cross Products  
5  $\bullet$  6 = 10  $\bullet$  3  
5  $\frac{1}{6} = \frac{6}{9}$   
1)  $\frac{w}{6} = \frac{6}{9}$   
2)  $\frac{12}{10} = \frac{a}{15}$ 

## Using Cross Products to Solve Proportions

3) 
$$\frac{9}{y} = \frac{3}{17}$$

**Using Cross Products to Solve Proportions** 

4) 
$$\frac{x}{8} = \frac{7}{10}$$

# **Practice**

5) 
$$\frac{x}{25} = \frac{6}{10}$$

## **Practice**

6) 
$$\frac{2}{9} = \frac{3}{d}$$

