5.4

Solving Proportions

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%

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Review

Solve the missing variable in the proportion mentally.

2) $\dfrac{5}{8} = \dfrac{20}{d}$

3) $\dfrac{7}{z} = \dfrac{14}{10}$

4) $\dfrac{21}{24} = \dfrac{x}{8}$

What are Proportions?

Proportions are _____ _____

$$\frac{3}{5} = \frac{6}{10}$$

Cross Products

1) $\dfrac{w}{6} = \dfrac{6}{9}$

2) $\dfrac{12}{10} = \dfrac{a}{15}$

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

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

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

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

7) $\dfrac{b}{10} = \dfrac{3}{4}$

Practice

8) $\dfrac{c}{15} = \dfrac{5}{6}$