4.1 ~ Ratios & Proportions

Past due on_____ Period____

Set up and solve an equation that represents the situation.

1) The perimeter of a rectangle is 84 feet. The ratio of the width to the length is 2 : 5.
   (a) Find the length and the width.
   (b) Find the area.

2) The area of a rectangle is 108 square centimeters. The ratio of the width to the length is 3 : 4.
   (a) Find the length and the width.
   (b) Find the perimeter.

Use the Cross Product Property to solve each proportion. If necessary, round your solution to the nearest hundredth.

3) $-\frac{5}{20} = \frac{2}{x+13}$

4) $\frac{15}{x} = \frac{8}{x-6}$

5) $\frac{5}{13} = \frac{x-19}{x}$

6) $-\frac{5}{7} = \frac{x-18}{x+3}$

7) $\frac{x-11}{17} = \frac{x-5}{13}$

8) $\frac{3}{x+5} = \frac{2x+8}{8}$