

Name \_\_\_\_\_

Math 94 In-class Exercise 11 [Section 2.7]

1. Write the following ratios, in lowest terms:

(a) the ratio of 45 pounds to 150 pounds

(b) the ratio of 2 hours to 20 minutes

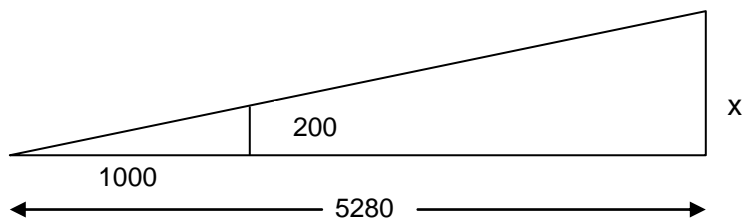
(c) In a certain state senate, there are 90 men and 24 women. Find (in lowest terms) the ratio of women to the total number of senators.

2. Solve the proportions:

(a)  $\frac{5}{6} = \frac{x}{4}$

(b)  $\frac{12}{5} = \frac{6}{x+1}$

3. An airplane ascends 200 feet as it flies a horizontal distance of 1,000 feet. How much altitude will it gain as it flies a horizontal distance of 1 mile? [Use 5,280 feet = 1 mile.]



4. In a scale drawing, a building 60 feet tall is drawn 4 inches high. The building next to it is 45 feet tall. How high will it be drawn in the scale drawing?