Solve each problem with a proportion.

1. The ratio of cars to trucks in the big parking lot is 8:5
If there are 80 trucks, how many cars are there?

128 cars

$$\frac{8\,c}{5\,T} = \frac{?\,c}{80\,T}$$

2. Use the same information from #1. If there are a total
of 325 vehicles in the lot, how many trucks are there?

$$\frac{5\,T}{13\,V} = \frac{?\,T}{325\,v}$$

125 Trucks

3. The carpenter can make 16 birdhouse in 5 days. At the same rate
how many birdhouses can be made in 27.5 days?

$$\frac{16\,B}{5\,D} = \frac{x}{27.5\,D}$$

88 birdhouses

4. Ariel can swim 11 laps in 4 minutes. At the same rate find the
amount of time it will take her to swim 25 laps.

$$\frac{11\,Laps}{4\,min} = \frac{25\,Laps}{x\,min}$$

x = 9.09 min

5. The scale on a map is 3 in : 40 mi. If two cities are 5 inches apart
on the map how far apart are they in real life?

$$\frac{3\,in}{40\,mi} = \frac{5\,in}{x\,mi}$$

x = 66.67 mi

6. The scale on a drawing of an insect is 1.5 in = 8 mm. If the drawing
of the insect is 7 inches long how long is the actual insect?

$$\frac{1.5\,in}{8\,mm} = \frac{7\,in}{x\,mm}$$

x = 37.3 mm