

In #1-6, use a proportion to solve each problem. Round answer to the hundredths. (2pt)

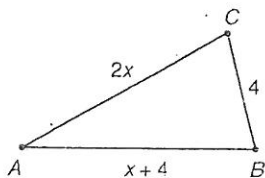
1. A car travels 106 miles on 4 gallons of gas. How far would you expect it to travel on a full tank of 11 gallons?
2. If a 425 lb. Landrover weighs 68 lb. on the moon; how much should a 150 lb woman weigh on the moon? What would your weight be?
3. A pitcher gave up 34 runs in 106 innings. What would his earned run average be (ERA)? In other words, how many runs would he give up in 9 innings?
4. A 42 ft cable is cut into two sections which have a ratio of 3:4. How long is each section?
5. A floor plan for a house is drawn to the scale of $1/4" = 1'$. On the blueprints the master bedroom measures 3" by $3 \frac{3}{4}"$. What is the actual size of bedroom?
6. The ratio of snowfall in January to total snowfall is 7:10. If 120 inches fell all year, how much snow fell in January?

#7-10, solve the proportion. (2 pt)

$$7. \frac{10}{b} = \frac{15}{42} \quad 8. \frac{2}{y} = \frac{y}{36} \quad 9. \frac{2}{3x-1} = \frac{5}{x} \quad 10. \frac{w}{w+4} = \frac{2}{w}$$

#11-12, the scale factors for sides are shown. Find the length of each side. (2pt)

11. $AC:BC:AB$ is 2:1:2.



12. $AB:BC:AC$ is 3:4:2.

