

# Proportions Worksheet

To help learn proportional reasoning, create a proportion from each set of numbers.

Miles	45										
Hours	1	2	3	4	5						

Dollars	3.30										
Pounds	1	2	3	4	5						

Dollars					45						
Hours	1	2	3	4	5						

Dollars					42						
Hours	1	2	3	4	5						

Dollars					15.50						
Meters	0.10	0.20	0.30	0.40	0.50						

Utilizing the information from the tables above:

- How many miles will someone travel in 11 hours?
- If you are working for \$9 per hour, how much will you make for an 8-hour shift minus a 1-hour lunch period?
- How much does 1 meter of fabric cost?

## Exercises in Scale

The scale of a drawing is  $\frac{1}{4}$  in = 15 ft. Find the actual measurements for:

1. 9 in	2. 12 in	3. 14 in	4. 15 in

The scale is 2 cm = 25 m. Find the length each measurement would be on a scale drawing:

5. 150 m	6. 475 m	7. 350 m	8. 500 m

Tell whether each scale reduces, enlarges, or preserves the size of an actual object for:

9. 1 m = 25 cm	10. 8 in = 1 ft	11. 12 in = 1 ft	

12. On a map, the distance between Atlanta, Ga., and Nashville, Tenn., is 12.5 inches. The actual distance between the cities is 250 miles. What is the scale?
13. Blueprints of a house are drawn to the scale of  $\frac{1}{4}$  in = 1 ft. Its kitchen measures 3.5 inches by 5 inches on the blueprints. What is the actual size of the kitchen?
14. A scale model of a house is 1 ft long. The actual house is 50 ft long. In the model, the window is  $1\frac{1}{5}$  inches tall. How many feet tall is the actual window?
15. A model of a skyscraper is 1.6 inches long, 2.8 inches wide, and 11.2 inches high. The scale factor is 8 inches = 250 feet. What are the actual dimensions of the skyscraper?