

MasterMath

Name _____

Date _____

Ratios and Rates

1. The corporate team-building event will cost \$8 if it has 4 attendees. If there are 7 attendees, how much will the corporate team-building event cost? Assume the relationship is directly proportional.

2. Randy prepared 6 kilograms of dough after working 2 hours. How much dough did Randy prepare if he worked for 6 hours? Assume the relationship is directly proportional.

3. Ronice's office recycled a total of 12 kilograms of paper over 3 weeks. How many weeks will it take Ronice's office to recycle a total of 20 kilograms of paper? Assume the relationship is directly proportional.

4. On a public transportation map, two stations are 4 inches apart, whereas in real life the distance between them is 2 miles. What scale does the map use?

5. Amelia learns 2 new appetizer recipes during each week of culinary school. After 5 weeks of culinary school, how many total appetizer recipes will Amelia know? Write and solve an equation to find the answer.

Equation	Answer

6. In geometry class, the girl to boy ratio is 7 to 8. If there are a total of 60 students, how many boys are there? First write a proportional relationship, then solve.

boys		=	
students			

7. Solve for x:

$$\frac{6}{7} = \frac{9}{x + 2}$$

8. This HO Scale locomotive model measures 3.25" long. HO Scale is 1:87. How many feet long is the actual locomotive?

