MasterMath

Ratios and Rates

Name _____

Date _____

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.

| 14 |

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.

| 18 |

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.

| 5 |

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?

| 1" : .5 miles |
or | 2" : 1 mile |

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
2/1 = x/5	10

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	8	=	x
students	15		60

| 32 boys |

7. Solve for x:

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

| x = 8.5 |

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

| 23.56' |