

# MasterMath

Name \_\_\_\_\_  
Date \_\_\_\_\_

## Proportions

1. Do these ratios form a proportion?

ratios		proportion?
1/3	2/3	
4/5	12/15	
5/8	10/24	
1/2	25/50	
6/7	18/21	

ratios		proportion?
6/5	12/10	
24/30	4/5	
2/7	6/21	
1/8	6/50	
18/20	9/11	

Tell whether the two rates for a proportion

2. \$45 in 9 hours; \$25 in 5 hours

3. 150 miles in 6 hours; 125 miles in 4 hours

4. 250' in 2 seconds; 600' in 5 seconds

5. 16 gallons for 240 miles; 12 gallons for 180 miles

6. 150 calories in 3 servings; 275 calories in 5 servings

7. You walk 126 yards in 70 seconds; your sister walks 80 yards in 50 seconds.  
Are your speeds proportional?

8. You make \$12.00 babysitting for 3 hours. Josie makes \$36 working 8 hours  
at the day care. Are your wages proportional?

9. You had 16 hits in 40 times at bat. Your brother had 12 hits in 30 times at  
bat. Were your batting averages proportional?

10. Your punch recipe calls for 3 parts orange juice to 2 parts lime juice. You  
make a batch and use 12 cups of orange juice and 3 cups of lime juice. How  
much more lime juice do you need to add to equal your recipe?

11. Which running backs ratio of runs to yards gained is not proportional to the  
other two?

back	runs	yards
Joe	10	65
Fred	5	25
Milt	16	80

12. Two triangles have these dimensions. Are they proportional?

Triangle	height	base
1	10	15
2	15	20