

MasterMath

Name _____
Date _____

Proportions

1. Do these ratios form a proportion?

ratios		proportion?
1/3	2/3	no
4/5	12/15	yes
5/8	10/24	no
1/2	25/50	yes
6/7	18/21	yes

ratios		proportion?
6/5	12/10	yes
24/30	4/5	yes
2/7	6/21	yes
1/8	6/50	no
18/20	9/11	no

Tell whether the two rates form a proportion

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

yes

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

no

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

no

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

yes

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

no

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

no

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

no

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?

yes

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?

5

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

Joe

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

Triangle	height	base
1	10	15
2	15	20

no