

Grade 7 Mathematics Assessment Analysis – SOL Alignment and Cognitive Demand

STANDARD 7.4

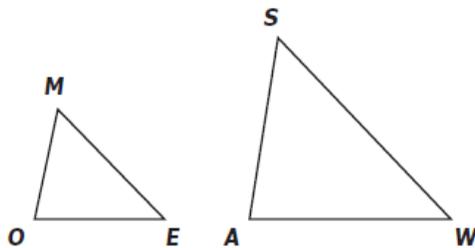
The student will solve single-step and multistep practical problems, using proportional reasoning.

1. The practice range at a golf course charges \$4.00 for a bucket of 40 golf balls. Write a proportion that could be used to calculate the cost of 100 golf balls.

2. Solve for x : $\frac{2}{3} = \frac{x}{12}$

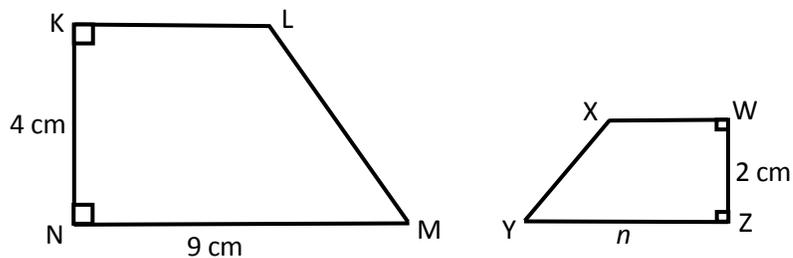
3. If 3 miles is 4828.05 meters, how many miles are in 8851.425 meters?

4. Triangle OME is similar to triangle ASW. Write a proportion between two sides of the first triangle and two sides of the second triangle.



5. The bill at a store is \$150. A 10% coupon is applied. What is the amount of the discount?
6. Xavier saved money to purchase a bike that originally cost \$250, not including tax. The store discounted the bike by 15%. What is the discounted price he will pay for the bike, including 5% sales tax?

7. Trapezoid KLMN is similar to trapezoid WXYZ.



What is the measure of side YZ?

8. A store is having a sale on cell phones. What is the percent of discount? Justify your answer.



Sale
Regular Price: \$300
Sale Price: \$255