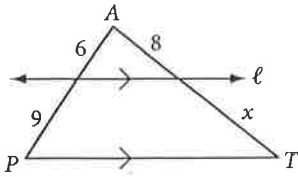


Lesson 11.7 • Proportional Segments Between Parallel Lines

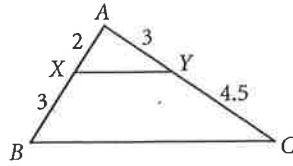
Name _____ Period _____ Date _____

All measurements are in centimeters.

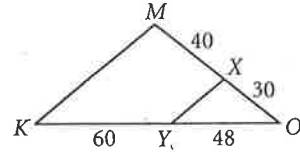
1. $x = 12 \text{ cm}$



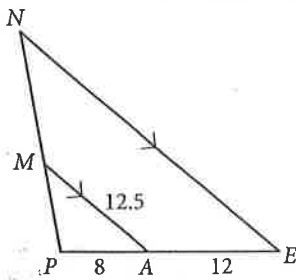
2. Is $\overline{XY} \parallel \overline{BC}$? *yes*



3. Is $\overline{XY} \parallel \overline{MK}$? *No*



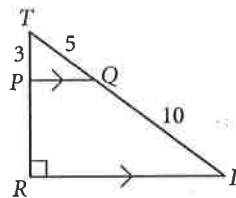
4. $NE = 31.25 \text{ cm}$



5. $PR = 6 \text{ cm}$

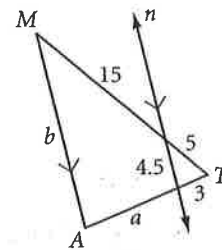
$PQ = 4 \text{ cm}$

$RI = 12 \text{ cm}$



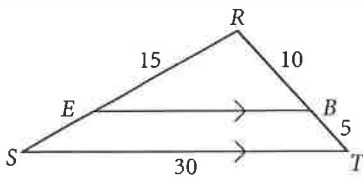
6. $a = 9 \text{ cm}$

$b = 18 \text{ cm}$



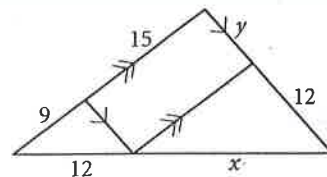
7. $RS = 22.5 \text{ cm}$

$EB = 20 \text{ cm}$



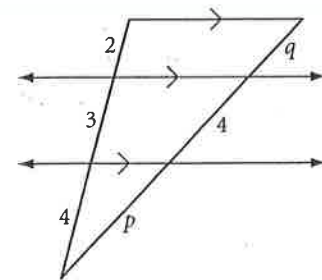
8. $x = 20 \text{ cm}$

$y = 7.2 \text{ cm}$



9. $p = \frac{16}{3}$

$q = \frac{8}{3}$

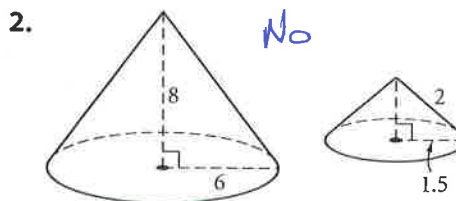
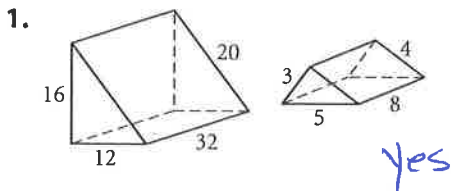


Lesson 11.6 • Proportions with Volume

Name Answer Key Period _____ Date _____

All measurements are in centimeters unless otherwise indicated.

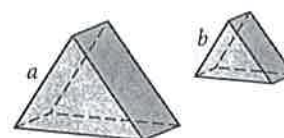
In Exercises 1 and 2, decide whether or not the two solids are similar.



3. The triangular prisms are similar and the ratio of a to b is $\frac{5}{2}$.

Volume of large prism = 250 cm^3

Volume of smaller prism = 16 cm^3

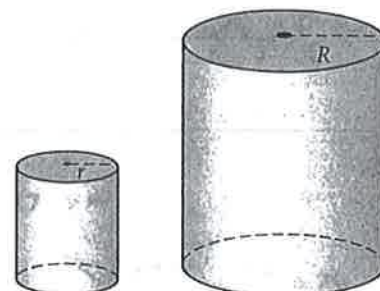


4. The right cylinders are similar and $r = 10 \text{ cm}$.

Volume of large cylinder = 64 cm^3

Volume of small cylinder = 8 cm^3

$R =$ 20 cm



5. The corresponding heights of two similar cylinders is 2:5. What is the ratio of their volumes?

$8:125$

6. A rectangular prism aquarium holds 64 gallons of water. A similarly shaped aquarium holds 8 gallons of water. If a 1.5 ft^2 cover fits on the smaller tank, what is the area of a cover that will fit on the larger tank?

6 ft^2