

591: 1-7, 9-11, 13-14

1.  $6 \text{ cm}$

2.  $k = 40 \text{ cm}$

$k = 40 \text{ cm}$

3.  $m = 28 \text{ cm}$

4.  $n = 54 \text{ cm}$

$s = 42 \text{ cm}$

5. NO  $\frac{37}{30} \neq \frac{35}{28}$

6. YES  $\triangle MOY \sim \triangle NOT$   
by SAS

7. YES  $\triangle PHY \sim \triangle YHT$

$YH = 12$  and

$\frac{20}{15} = \frac{16}{12} = \frac{12}{9}$  SSS

$\triangle YTP$  is Right

$20^2 + 15^2 = 25^2$

9.  $e = 6\frac{2}{3} \text{ cm}$

yes  $\angle QTA \cong \angle TUR$

and  $\angle QAT \cong \angle ARU$

$\therefore \triangle QTA \sim \triangle TUR$

by AA

10.  $f = 24 \text{ cm}$

$g = 40 \text{ cm}$

11.  $p = 52 \text{ cm}$   $q = 42 \text{ cm}$

yes  $\angle THU \cong \angle GDU$

$\angle HTU \cong \angle DGU$

13.  $t = 28 \text{ cm}$

$s = 120 \text{ cm}$

yes by AA

14.  $w = 20 \text{ cm}$

$x = 21 \text{ cm}$