

# Homework

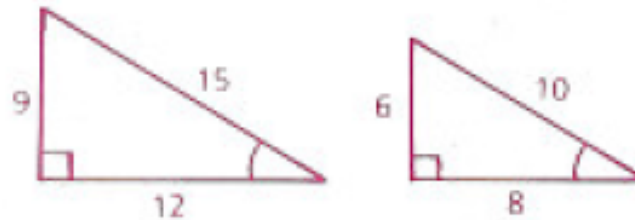
p.336: 2, 3, 5, 10, 11, 14

2 Which pairs of polygons can be proved to be similar?

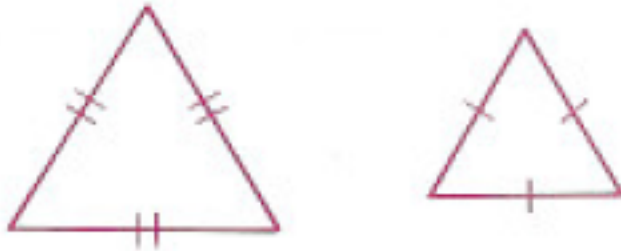
a



c



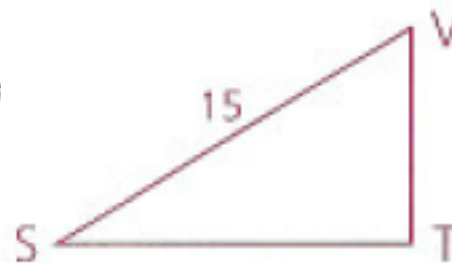
b



d

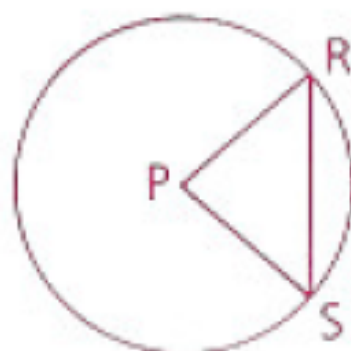


3 Given:  $\triangle NPR \sim \triangle STV$ ,  
 $m\angle P = 90$ ,  $m\angle R = 60$ ,  
 $SV = 15$ ,  $NR = 20$ ,  $RP =$   
Find:  $m\angle T$ ,  $m\angle S$ , and  $VT$



- 5 Given:  $\odot O$ ,  $\odot P$ ,  $\triangle AOB \sim \triangle RPS$ ,  
 $OA = 2$ ,  $AB = 3$ ,  $PR = 6$

Find:  $PS$  and  $RS$



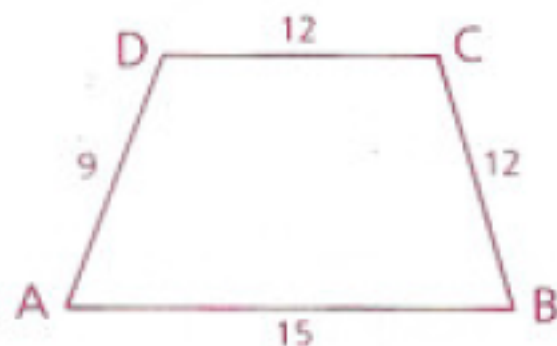
- 10 Given: Quad  $ABCD \sim$  quad  $HGFE$ ,  
with measures as shown

Find: **a** The ratio of lengths of corresponding sides

**b**  $EF$

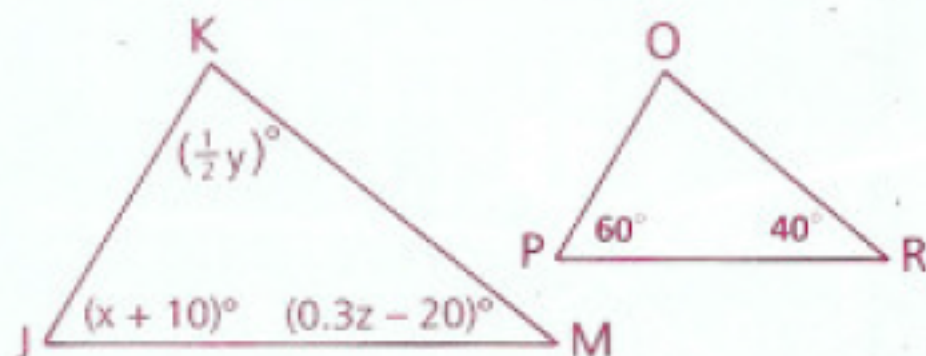
**c** The perimeter of  $EFGH$

**d** The ratio of the perimeters



- 11 Given:  $\triangle KJM \sim \triangle OPR$ ,  
with angles as shown

Find:  $\frac{x + y + z}{2}$



- 14 The roof of a house has a slope of  $\frac{5}{12}$ .  
What is the width of the house if the  
height of the roof is 8 ft?

