

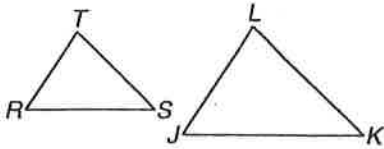
6-5

Skills Practice

Parts of Similar Triangles

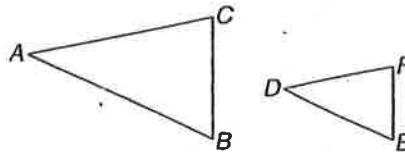
Find the perimeter of the given triangle.

1. $\triangle JKL$, if $\triangle JKL \sim \triangle RST$, $RS = 14$, $ST = 12$, $TR = 10$, and $LJ = 14$



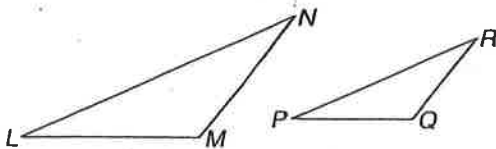
50.4

2. $\triangle DEF$, if $\triangle DEF \sim \triangle ABC$, $AB = 27$, $BC = 16$, $CA = 25$, and $FD = 15$



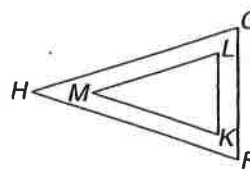
40.8

3. $\triangle PQR$, if $\triangle PQR \sim \triangle LMN$, $LM = 16$, $MN = 14$, $NL = 27$, and $RP = 18$



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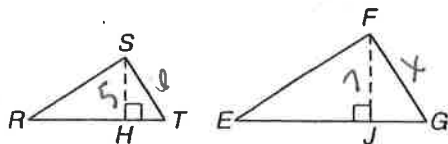
4. $\triangle KLM$, if $\triangle KLM \sim \triangle FGH$, $FG = 30$, $GH = 38$, $HF = 38$, and $KL = 24$



84.8

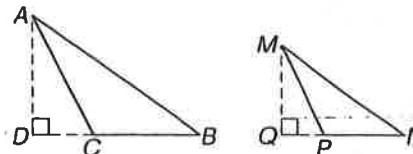
Use the given information to find each measure.

5. Find FG if $\triangle RST \sim \triangle EFG$, \overline{SH} is an altitude of $\triangle RST$, \overline{FJ} is an altitude of $\triangle EFG$, $ST = 6$, $SH = 5$, and $FJ = 7$.



8.4

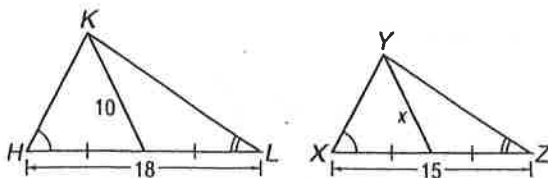
6. Find MN if $\triangle ABC \sim \triangle MNP$, \overline{AD} is an altitude of $\triangle ABC$, \overline{MQ} is an altitude of $\triangle MNP$, $AB = 24$, $AD = 14$, and $MQ = 10.5$.



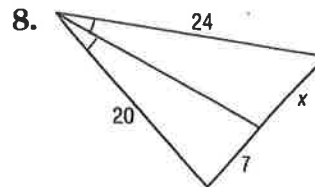
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Find x .

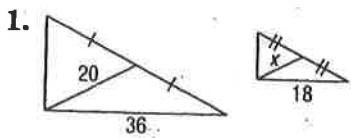
7. $\triangle HKL \sim \triangle XYZ$



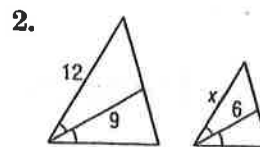
$8\frac{1}{3}$ or $\frac{25}{3}$ or $8.\overline{3}$



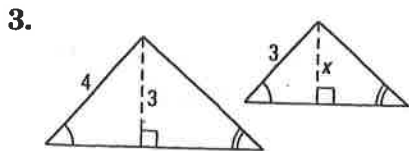
8.4



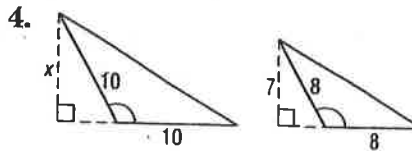
10



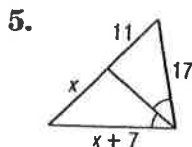
8



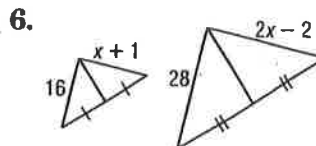
2.25



8.75



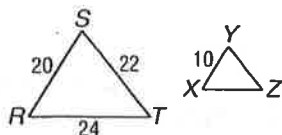
$$\frac{17}{6} = 12\frac{5}{6} = 12.8\bar{3}$$



15

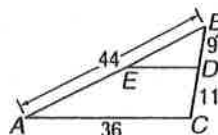
Each pair of triangles is similar. Find the perimeter of the indicated triangle.

1. $\triangle XYZ$



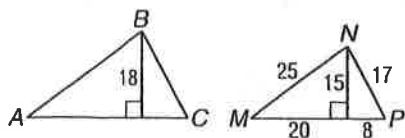
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2. $\triangle BDE$



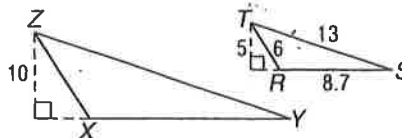
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3. $\triangle ABC$



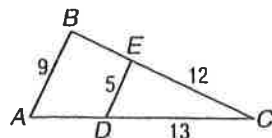
84

4. $\triangle XYZ$



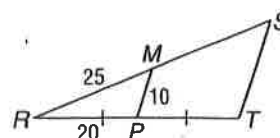
55.4

5. $\triangle ABC$



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6. $\triangle RST$



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