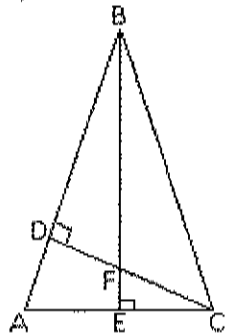


Similar Review

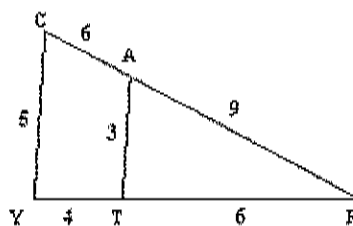
Do Work on Separate Sheet

Determine if the following triangles are similar.

1)

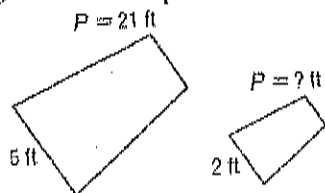


2)



- 3) The perimeter of $\triangle ABC = 12$. If a similar triangle has sides length 3, 4, and 11, find the smallest side of $\triangle ABC$.

- 4) Find the perimeter of the smaller figure.



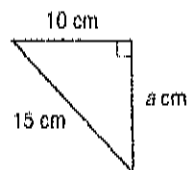
- 5) In a scale drawing of a playground, the sandbox has a length of 6 in and a perimeter of 19.5 in. The actual length of the sandbox is 48 in. Find the perimeter of the actual sandbox.

Continue with the work on the back

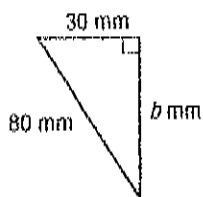


Find the missing side of each right triangle: Estimate any sides to the nearest integer.

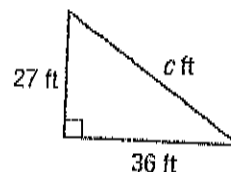
6)



7)



8)



Determine if a triangle with the following lengths will be a right triangle. Justify your answer.

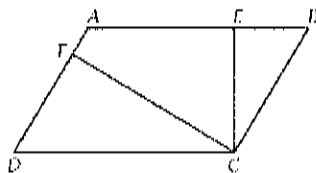
9) 24, 143, 145

10) 135, 140, 175

11) 55, 70, 55

12) A lakefront building that is 30 feet high cast a shadow on the water. How long is that shadow if a 16 foot high truck parked nearby casts an 8 foot shadow?

13) In the diagram below, $\triangle DFC \sim \triangle BEC$. Find the measure of DF if $DC = 18$, $EB = 3$, and $BC = 4$. What is the scale factor?



ANSWERS

1) yes, by AA~ 2) yes by SSS~ 3) 2 4) 8.4 5) 156 6) 11 7) 74 8) 45

9) yes 10) no 11) no 12) 15 13) 13.5, scale factor = $\frac{9}{2}$