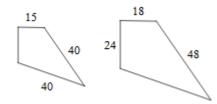
## See ANSWERS below on PAGE 3.

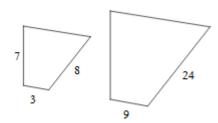
1.



2.

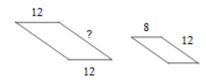


3.

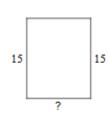


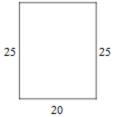
The polygons in each pair are similar. Find the missing side length.

4.



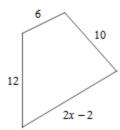
5.





6.





- 7.  $\triangle$ ABC is similar to  $\triangle$ DEF. Their scale factor is 7:9. If the perimeter of  $\triangle$ ABC is 42, what it the perimeter of  $\triangle$ DEF?
- 8. ABCD is similar to LMNP. AB = 14, BC = 10, NM = x + 6, and ML = x + 9. Find x, the scale factor, the length of LM, and the length of MN.
- 9.  $\triangle$ ABC is similar to  $\triangle$ DEF. AB = 6, AC = 12, ED = x 3, and FD = x + 1. Find x, the scale factor, the length of DE, and the length of DF.

Answers:

