

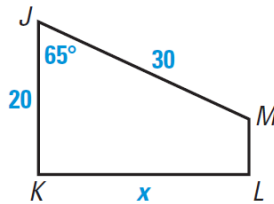
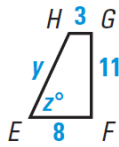
Geometry Chapter 8 ReviewIn the diagram, $JKLM \sim EFGH$.

1. $x =$ _____

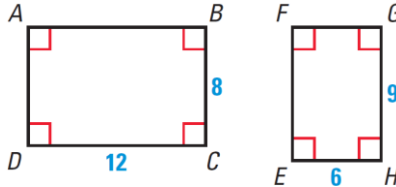
2. $y =$ _____

3. $z =$ _____

4. If the area of
- $EFGH$
- is 60.5, find the area of
- $JKLM$
- .



5. Decide whether the polygons are similar.

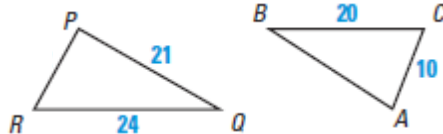
In the diagram, $\triangle PQR \sim \triangle ABC$.

6. $\angle R \cong \angle$ _____

7. $\angle Q \cong \angle$ _____

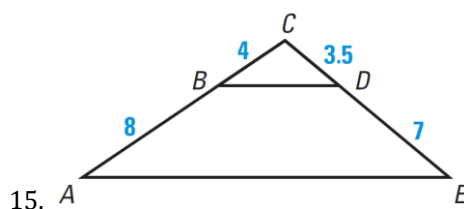
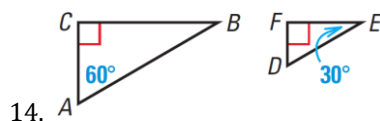
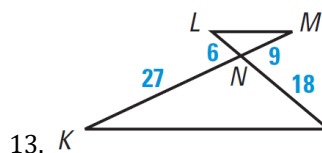
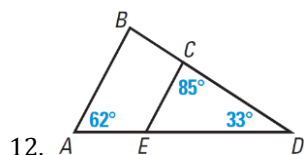
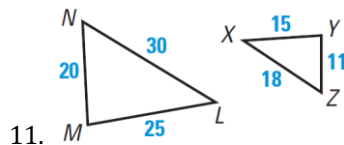
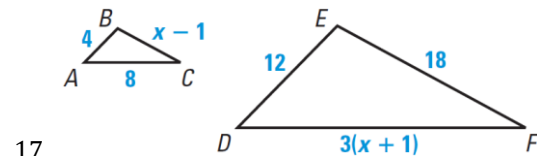
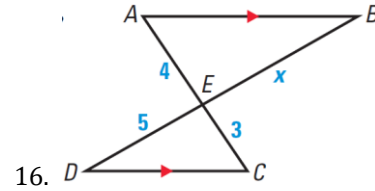
8. $PR =$ _____

9. $AB =$ _____

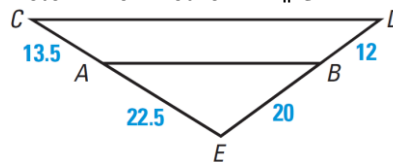
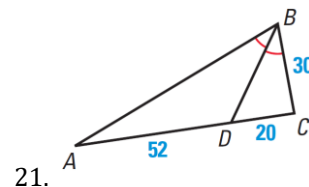
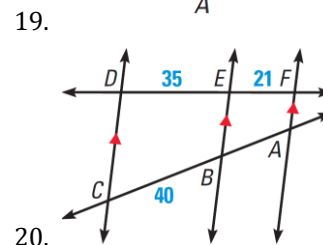
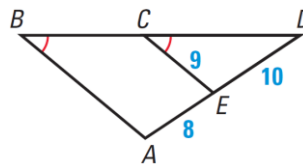


10. Find the perimeter of
- $\triangle ABC$
- .

Determine whether the triangles are similar. If so, write a similarity statement and the postulate or theorem that justifies your answer.

Find the value of x that makes the two triangles similar.

18. Determine whether
- $\overline{AB} \parallel \overline{CD}$
- .

Find the length of \overline{AB} .

- 22.
- SCALE MODEL**
- You are making a scale model of your school's baseball diamond as part of an art project. The distance between two consecutive bases is 90 feet. If you use a scale factor of
- $\frac{1}{180}$
- to build your model, what will be the distance around the bases on your model?



Answers

1. 27.5
2. 12
3. 65
4. 378.125
5. Similar because the corresponding sides are proportional and the corresponding angles are \cong
6. $\angle C$
7. $\angle B$
8. 12
9. 17.5
10. 47.5
11. Not similar
12. Similar; $\triangle CDE \sim \triangle BDA$; AA Similarity Postulate
13. Similar; $\triangle KJN \sim \triangle MLN$; SAS Similarity Postulate
14. Similar; $\triangle ABC \sim \triangle DEF$; AA Similarity Postulate
15. Similar; $\triangle BCD \sim \triangle ACE$; SAS Similarity Postulate
16. $\frac{20}{3}$
17. 7
18. Parallel
19. 16.2
20. 24
21. 78
22. 2 ft (1/2 ft between consecutive bases)