

Name : _____

Score : _____ Date : _____

Word Problems on Similar Polygons Worksheet

- 1 Triangles ABC and PQR are similar. The length of the sides of ABC are 144, 128 and 112. The length of the smallest side of PQR is 280. Find the length of the longest side of PQR.

- 2 A boy 160 cm tall, stands 360 cm from a lamp post at night. His shadow from the light is 90 cm long. How long is the lampost ?

- 3 A map has a scale of 3 cm : 18 km. If Downtown and Smithville are 54 km apart, find how far apart they are on the map ?

- 4 A 6 ft tall tent standing next to a cardboard box casts a 9 ft shadow. If the cardboard box casts a shadow that is 6 ft long then how tall is the cardboard box ?

- 5 A tower casts a shadow of 7 m long. A vertical stick casts a shadow of 0.6 m long. If the stick is 1.2 m high, how high is the tower?

- 6 Triangles XYZ and EFG are similar. The perimeter of smaller triangle XYZ is 133. The length of the two corresponding sides on the triangles are 53 and 212. What is the perimeter of NOP ?

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Answers

Word Problems on Similar Polygons Worksheet

- 1 Triangles ABC and PQR are similar. The length of the sides of ABC are 144, 128 and 112. The length of the smallest side of PQR is 280. Find the length of the longest side of PQR.

360

- 2 A boy 160 cm tall, stands 360 cm from a lamp post at night. His shadow from the light is 90 cm long. How long is the lampost ?

800 cm

- 3 A map has a scale of 3 cm : 18 km. If Downtown and Smithville are 54 km apart, find how far apart they are on the map ?

9 cm

- 4 A 6 ft tall tent standing next to a cardboard box casts a 9 ft shadow. If the cardboard box casts a shadow that is 6 ft long then how tall is the cardboard box ?

4 ft

- 5 A tower casts a shadow of 7 m long. A vertical stick casts a shadow of 0.6 m long. If the stick is 1.2 m high, how high is the tower?

14 m

- 6 Triangles XYZ and EFG are similar. The perimeter of smaller triangle XYZ is 133. The length of the two corresponding sides on the triangles are 53 and 212. What is the perimeter of NOP ?

532