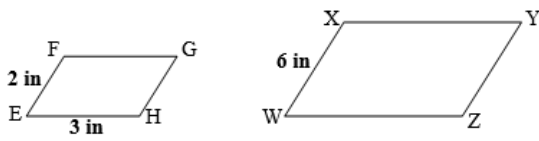


Practice - Similar Figures, Scale, and Scale Factor (7+)

1. Parallelogram EFGH is similar to parallelogram WXYZ.



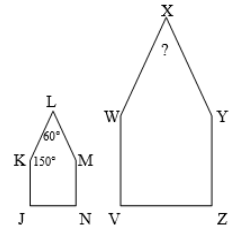
What is the length of \overline{WZ} ?

- a) 3 in b) 6 in c) 7 in d) 9 in

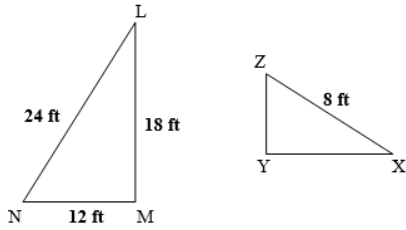
2. The two pentagons are similar

What is the measurement of angle X?

- a) 30° b) 60° c) 150° d) 120°



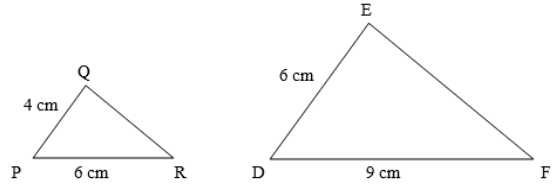
3. Triangle LMN is similar to triangle XYZ.



What is the length of \overline{YX} ?

- a) 2 feet b) 3 feet c) 4 feet d) 6 feet

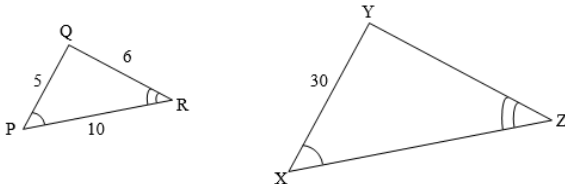
4. Triangle PQR is similar to triangle DEF as shown.



Which describes the relationship between corresponding sides of the two triangles?

- a) $\frac{PQ}{DE} = \frac{4}{6}$ b) $\frac{PQ}{DE} = \frac{6}{4}$ c) $\frac{PQ}{EF} = \frac{4}{9}$ d) $\frac{PR}{DE} = \frac{6}{6}$

5. $\triangle PQR$ is similar to $\triangle XYZ$.

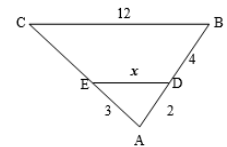


What is the perimeter of $\triangle XYZ$?

- a) 21 cm b) 63 cm c) 105 cm d) 126 cm

6. If triangles ADE and ABC shown in the figure to the right are similar, what is the value of x?

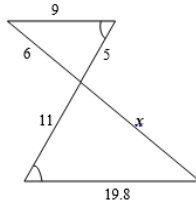
- a) 4 b) 5 c) 6 d) 8 e) 10



Practice - Similar Figures, Scale, and Scale Factor (7+)

7. In the figure to the right, the two triangles are similar. What is the value of x ?

- a) 12.4 b) 13.2 c) 14 d) 18.6 e) 22.1



8. Alanis is moving and needs to pack two mirrors. The largest mirror fits in a box that is 18 inches wide by 20 inches long. Her smaller mirror is similar in proportion to the larger mirror. Alanis determines that the width of the smaller box needs to be a minimum of 9 inches.

What should be the minimum length of the box to hold the smaller mirror?

- a) 2 inches b) 6 inches c) 9 inches d) 10 inches

9) Jamal is making a scale drawing of his property. The drawing is 15 inches long and 12 inches wide. How long and wide is the property if one inch equals 5 feet?

10) Mr. Lloyd wants to build a doll house for his daughter that is proportional to their house. He measured the living room of his house and it is 12 ft by 16 feet. What will be the dimensions of the doll house living room if every foot of the actual house is equal to $\frac{1}{2}$ inches in the doll house?

11) A map is drawn with a scale of 1 inch = 15 miles. Nicole measured the distance to the next town as 3 inches. How many miles does she have to travel to get to the next town?

12) Thomas has a scale drawing for his club house. The measurements are 4 in. by 8 in. What will the actual club house measurements be if the scale factor is 1 in. = 2 ft?