Geometry   Review Practice for Ch 10   Part 2   Spring 2020
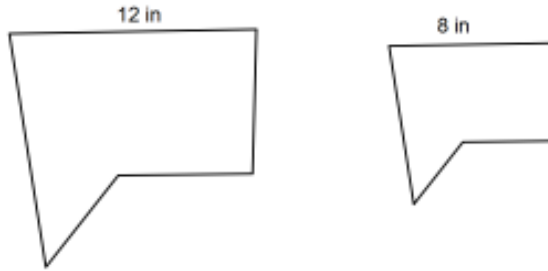
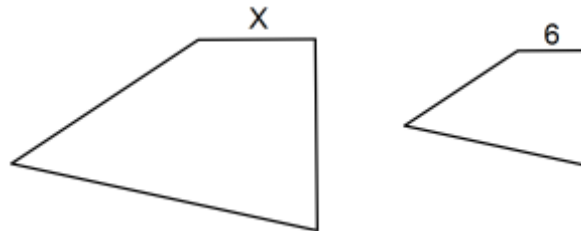Round to the nearest hundredth when needed unless noted otherwise.

1. The given figures are similar.

12 in

8 in

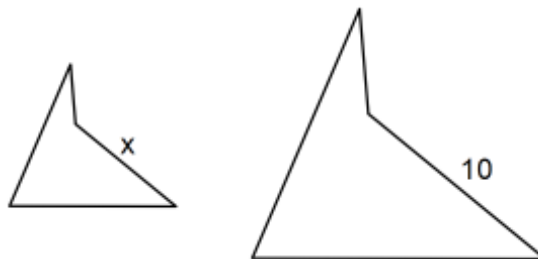a) If the perimeter of the smaller figure is 200 in. find ther perimeter of the larger figure.

b) If the area of the bigger figure is 640 in² find the area of the smaller figure.
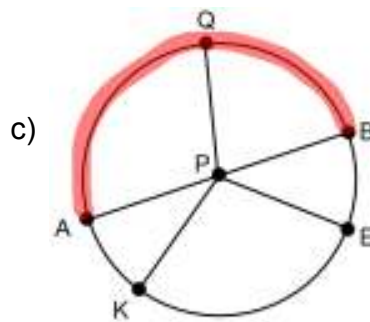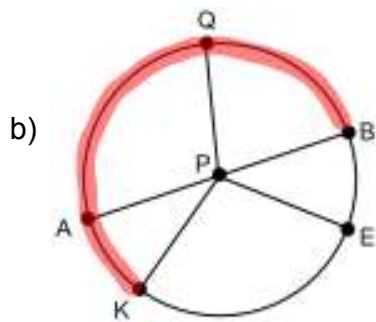
2. The figures shown are similar.

X

6
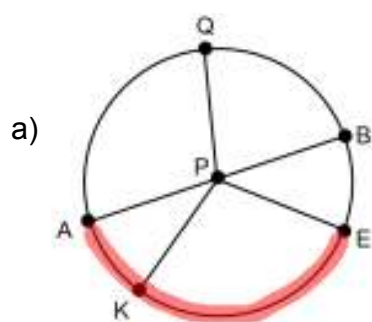
Find the value of x if the perimeter of the smaller figure is 32 ft and the perimter of the 40 ft.
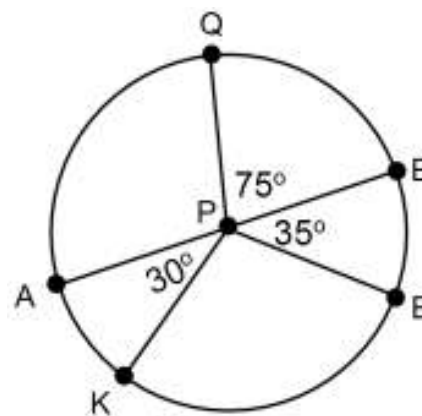
3. The figures shown are similar.

x

10

Find the value of x if the area of the larger figure is 240 cm² and the area of the smaller figure is 96 cm².

4. Name the highlighted arcs in circle P. $\overline{AB}$ is a diameter in each circle.

a)

b)

c)

5. Find the measure of each arc. $\overline{AB}$ is a diameter in circle P.

a) $m\widehat{KE}$ =

b) $m\widehat{EBA}$ =

c) $m\widehat{KQE}$ =

6. Using the same circle as problem #5 fill in the blanks to make a true statement.

a) $\widehat{AK}$ + _____ = $\widehat{AEB}$

b) $\widehat{EBA}$ + $\widehat{AK}$ = _____

c) $\widehat{QBK}$ − $\widehat{EK}$ = _____

7. Use the circle from problem #5.
a) If AB = 8 ft. find the length of $\widehat{QB}$ to the nearest hundredth.

b). If the length of $\widehat{AK}$ = 20 cm find the radius of the circle.

2

8. The circumference of a circle is 40 in. Find the radius to the nearest hundredth.

9. The radius of a circle is 50 in. Find the area to the nearest hundredth.

10. The area of a circle is 275 cm². Find the diameter to the nearest hundredth.

11. Use the circle from problem #5. $PE = 9$ ft. Find the area of the sector formed by $\overline{PQ}$, $\overline{PE}$ and $\overset{\frown}{QE}$ to the nearest hundredth.

12. If the area of the shaded sector in circle K is 25 cm²find the measure of central angle θ to thenearest hundredth of a degree.
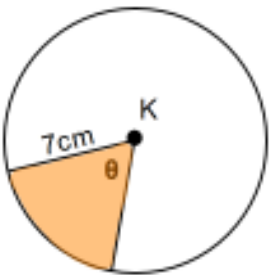
13. Find the area of the shaded segment in circle M to the nearest hundredth.