

Maths

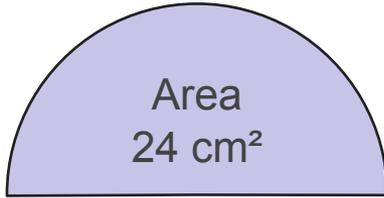
Find the radius or diameter given the area of a sector

Miss Parnham



Find the radius or diameter given the area of a sector

1. The area of a semicircle is 24 cm^2 .



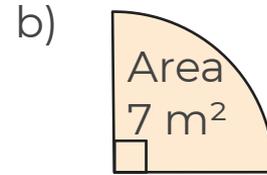
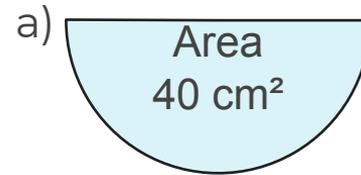
a) What is the area of a circle with the same radius?

b) Calculate the radius of this circle.

c) How long is the diameter?

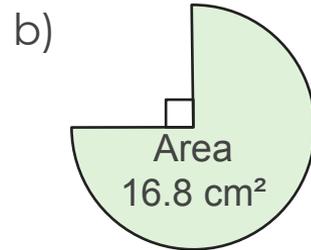
2. Find the radius of these sectors.

Give answers to 3 significant figures.



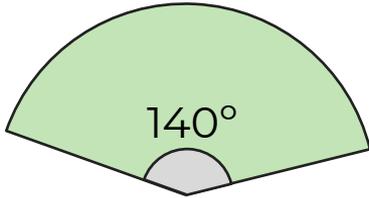
3. Find the diameter of these sectors.

Give answers to 3 significant figures.



Find the radius or diameter given the area of a sector

4. The area of this sector is 19.2 cm^2 .



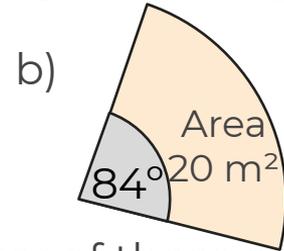
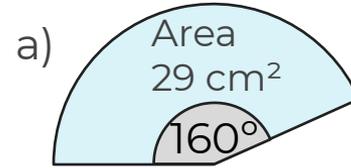
a) What is the area of a circle with the same radius?

b) Calculate the radius of this circle.

c) How long is the diameter?

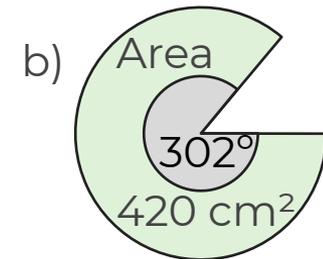
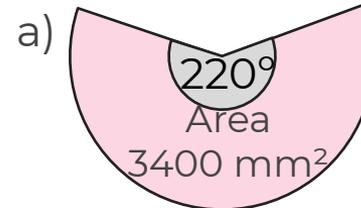
5. Find the radius of these sectors.

Give answers to 3 significant figures



6. Find the diameter of these sectors.

Give answers to 3 significant figures

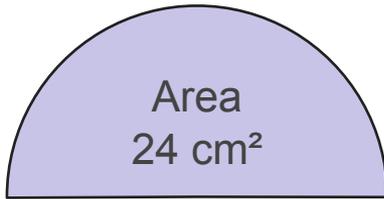


Answers



Find the radius or diameter given the area of a sector

1. The area of a semicircle is 24 cm^2 .



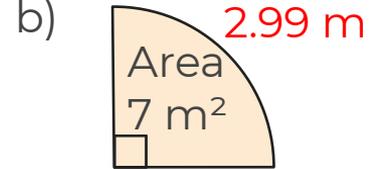
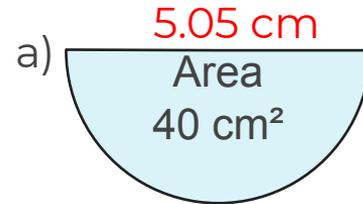
a) What is the area of a circle with the same radius? 48 cm^2

b) Calculate the radius of this circle.
 3.91 cm

c) How long is the diameter? 7.82 cm

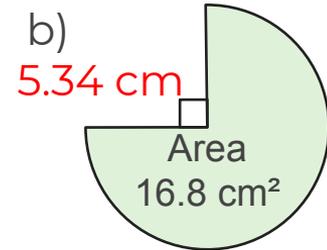
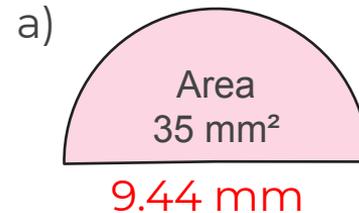
2. Find the radius of these sectors.

Give answers to 3 significant figures.



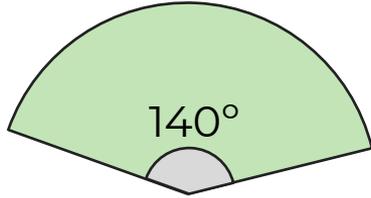
3. Find the diameter of these sectors.

Give answers to 3 significant figures.



Find the radius or diameter given the area of a sector

4. The area of this sector is 19.2 cm^2 .



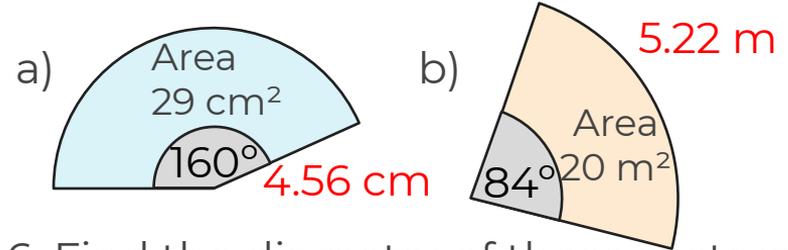
a) What is the area of a circle with the same radius? 49.4 cm^2

b) Calculate the radius of this circle.
 3.96 cm

c) How long is the diameter? 7.93 cm

5. Find the radius of these sectors.

Give answers to 3 significant figures



6. Find the diameter of these sectors.

Give answers to 3 significant figures

