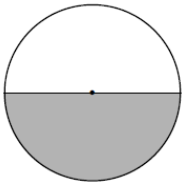
QUESTION **1** What fraction of the complete circle is each shaded sector?

a



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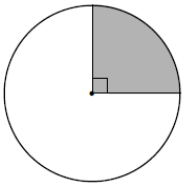
b



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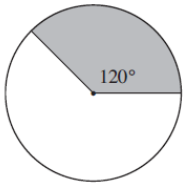
c



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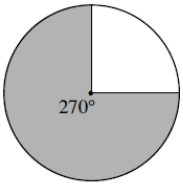
d



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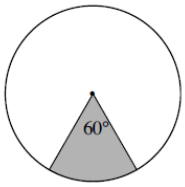
e



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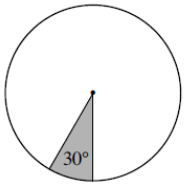
f



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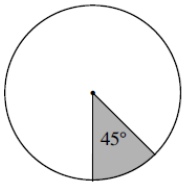
g



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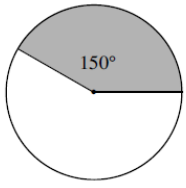
h



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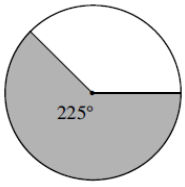
i



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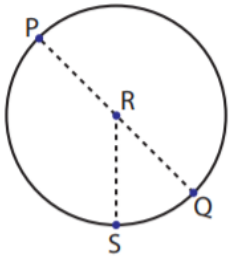
Exercise 1

Identify the parts of each circle.

1)

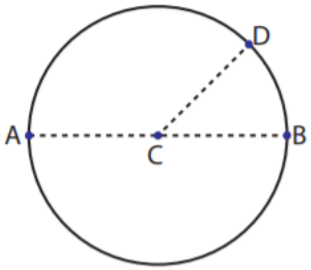


Center = _____

Radius = _____

Diameter = _____

2)

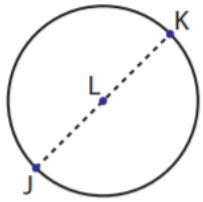


Center = _____

Radius = _____

Diameter = _____

3)

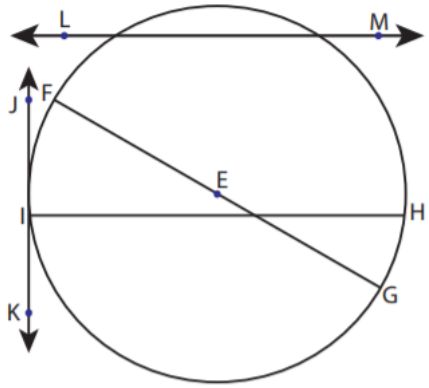


Center = _____

Radius = _____

Diameter = _____

1)

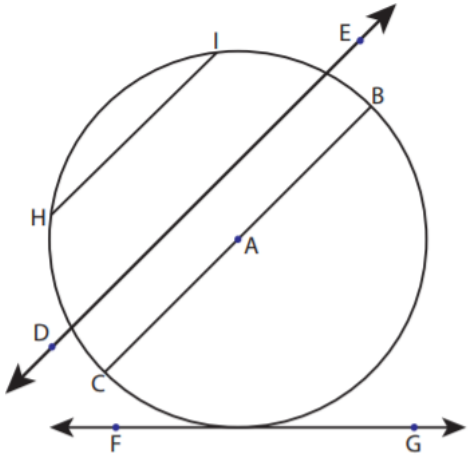


Center = _____ Chord = _____

Radius = _____ Tangent = _____

Diameter = _____ Secant = _____

2)



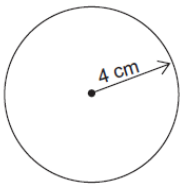
Center = _____ Chord = _____

Radius = _____ Tangent = _____

Diameter = _____ Secant = _____

QUESTION 1 Calculate the circumference of the following circles correct to one decimal place. Use the calculator value of π.

a



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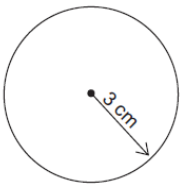
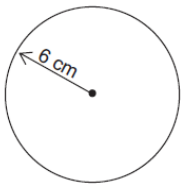
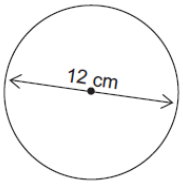


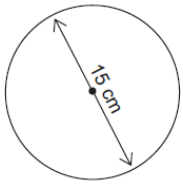
c



d



e



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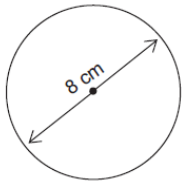
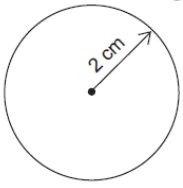


QUESTION 3 Calculate the circumference of these circles using $\pi = 3.14$. (Answer correct to three significant figures.)

a



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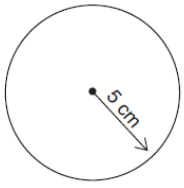
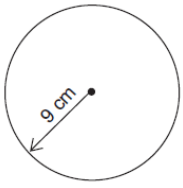
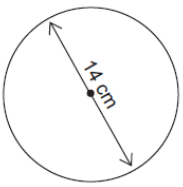


c



d



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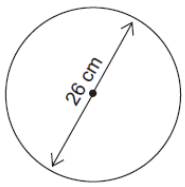

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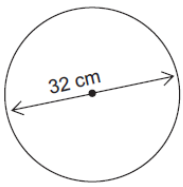
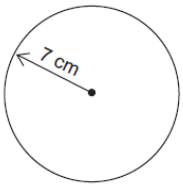


QUESTION 2 Calculate the circumference of these circles

a



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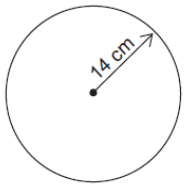
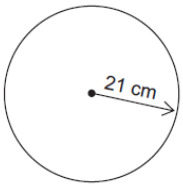


c



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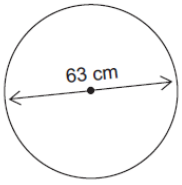

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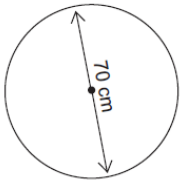

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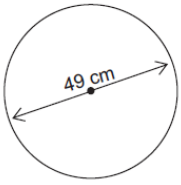
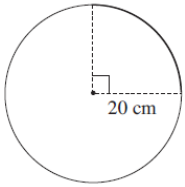


QUESTION 2 Find the arc length of the following, leaving your answers in exact form.

a



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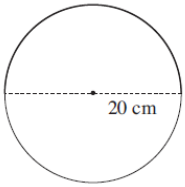
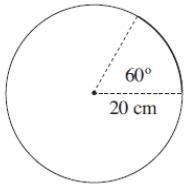


c



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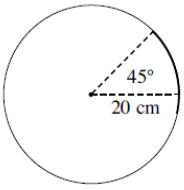

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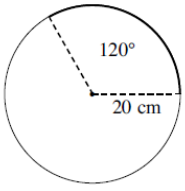

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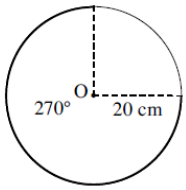
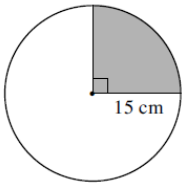


QUESTION 3 Find the perimeter of each shaded sector, correct to one decimal place.

a



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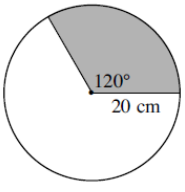
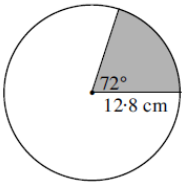
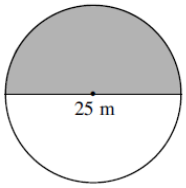


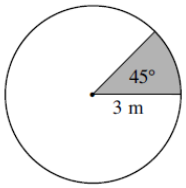
c



d



e



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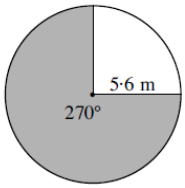
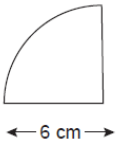
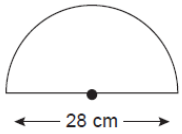


QUESTION 4 Calculate the perimeter of these figures correct to two decimal places.

a



b



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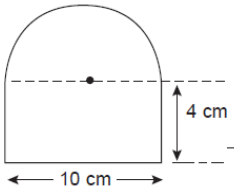
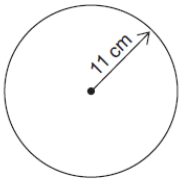


QUESTION 1 Calculate the circumference correct to one decimal place.

a



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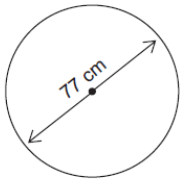
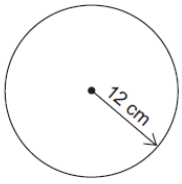
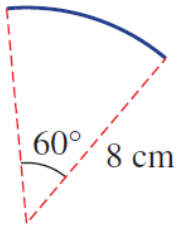


c

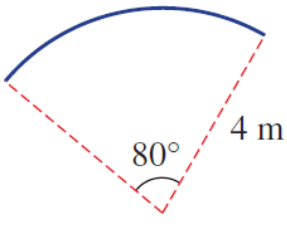


4 Find the length of each of the following arcs for the given angles, correct to 2 decimal places.

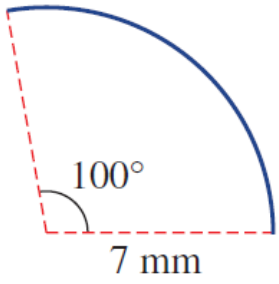
a



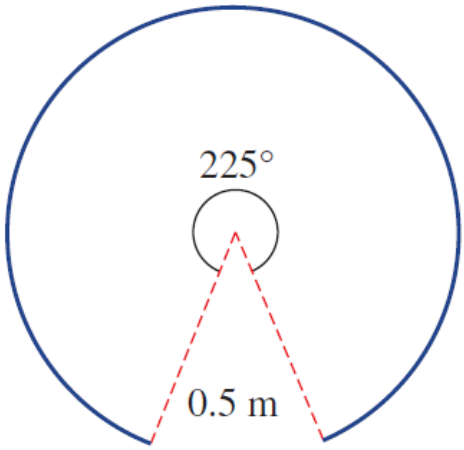
b



c

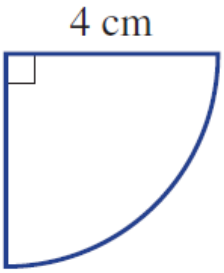


d



5 Find the perimeter of each of these sectors, correct to 1 decimal place.

a



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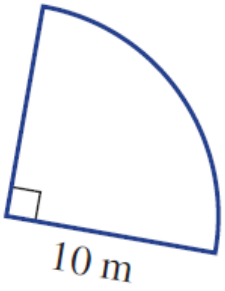

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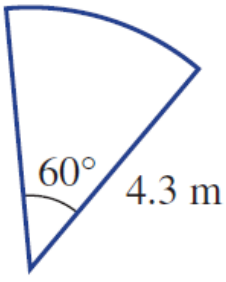
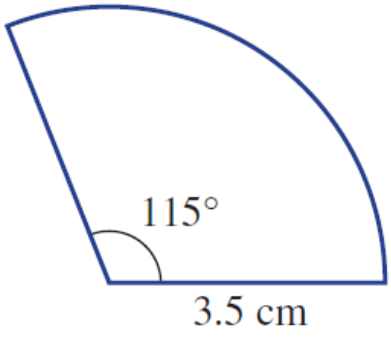
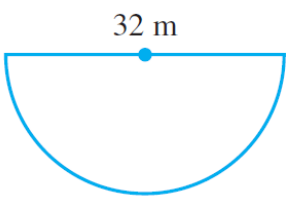


f



14 Calculate the total perimeter of each figure, correct to 1 decimal place.

a



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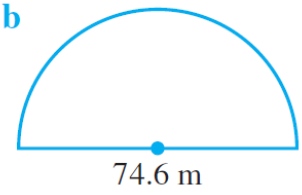

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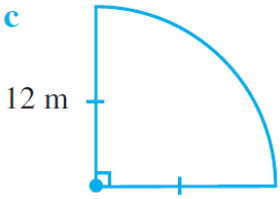

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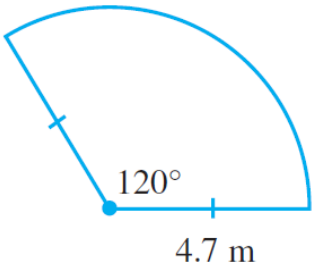

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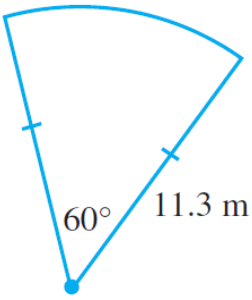

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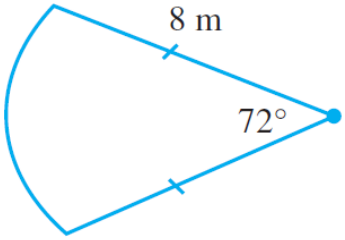

Question 1: A child's inflatable swimming pool has a diameter of 1.4 m. Find its circumference.

Question 2: Tina's bicycle has wheels with a diameter of 60 cm.

a) How far does the bicycle move when a wheel turns around once?

b) If Tina cycles 900 m to school, how many complete turns does the bicycle wheel make?

Question 3: The Earth has a radius of 6370 km. Find the distance around the Equator.

Question 4: A 20-cents coin has a radius of 16 mm. Calculate its circumference.

Question 5: This tin of tomatoes has a diameter of 75 mm. If the label wraps around the tin completely, how long is the label? Answer correct to the nearest millimetre.

Question 6: The lid of a jam jar has a 4 cm radius. Find the circumference of the lid, correct to the nearest centimetre.

Question 7: A roundabout at an intersection has a diameter of 5 m. What length of reflective tape is needed to go right around its edge, to 2 decimal places?

Question 8: A circular bike track has a diameter of 80 metres.

a) What is the distance of one lap of the track?

b) How many laps are ridden for a 10 000 metre race?

Question 9: A ferris wheel has a radius of 15.3 m.

a) How far does it spin in one turn, to the nearest metre?

b) How far does it spin in the 16 turns for one ride?

Question 10: A wall clock has a decorative border around its edge. How long is the border if the clock has a diameter of 25 cm?