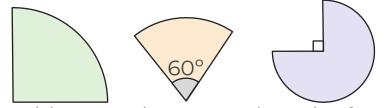
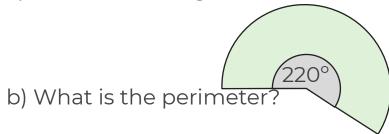
Miss Parnham



1. Find the radius of each sector if they all have arc length of 6π cm.



2. This sector has an arc length of 7m.a) What is the length of the radius?



3. Find the radius and perimeter of each sector, correct to 3 significant figures. a) Arc length 25 mm Arc length 17 cm C) d) 324° 230° Arc length 2.8 m Arc length 23.4 cm

4. A sector has radius 12 cm and arc

length 7π cm.

a) What is the circumference of a circle with the same radius, in terms of π ?

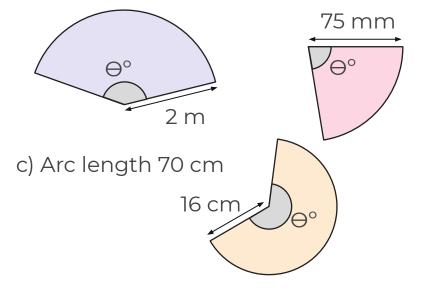
b)What fraction of the circumference is the arc length?

c) What is the angle of the sector?

5. Find the angle of each sector.

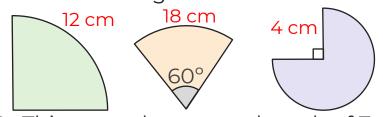
Give your answer to nearest °.

a) Arc length 5 m b) Arc length 105 mm



Answers

1. Find the radius of each sector if they all have arc length of 6π cm.



2. This sector has an arc length of 7m.

a) What is the length of the radius?



3. Find the radius and perimeter of each sector, correct to 3 significant R = 6.09 cmR = 21.1 mm figures. P = 29.2 cm $P = 67.1 \, \text{mm}$ a) 68 Arc length 17 cm R = 5.83 cm Arc length 25 mm P = 33) cm C) 324° 230° R = 0.495 mP = 3.79 m Arc length 2.8 m Arc length 23.4 cm



4. A sector has radius 12 cm and arc length 7π cm. Θ° a) What is the circumference of a circle with the same radius, in terms of π ? 24π cm b)What fraction of the circumference is the arc length?

c) What is the angle of the sector? 105°

5. Find the angle of each sector.

Give your answer to nearest °.

a) Arc length 5 m b) Arc length 105 mm

