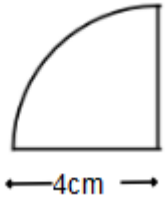
Name ……..

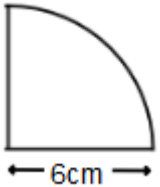
1) Work out the perimeter of the quarter circle below



a) Give your answer in terms of π
b) Give your answer to 1 decimal place

State the value of the diameter	D = 2 x 4 = 8
Substitute in C = π x D	C = π x 8 = 8π
Find the arc length	$\frac{8\pi}{4}$ = 2π
Add any straights to make full perimeter	= 2π + 4 + 4 = 2π + 8
Calculate	= 14.283185……
Round to 1 d. p.	= 14.3cm

2) Work out the perimeter of the quarter circle below

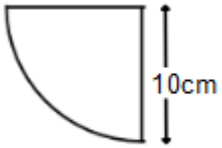


a) Give your answer in terms of π
b) Give your answer to 1 decimal place

State the value of the diameter	D = 2 x 6 = 12
Substitute in C = π x D	C = π x 12 = 12π
Find the arc length	$\frac{12\pi}{4}$ = 3π
Add any straights to make full perimeter	= 3π + 6 + 6 = 3π + 12
Calculate	=
Round to 1 d. p.	=

Name…….

3) Work out the perimeter of the quarter circle below

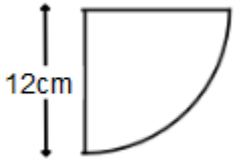


c) Give your answer in terms of π

d) Give your answer to 1 decimal place

State the value of the diameter	D = 2 x 10 = 20
Substitute in C = π x D	C = π x 20 = 20π
Find the arc length	$\frac{\pi \times 20}{4}$ = 5π
Add any straights to make full perimeter	= =
Calculate	=
Round to 1 d. p.	=

4) Work out the perimeter of the quarter circle below



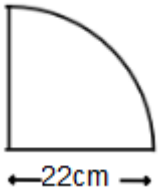
e) Give your answer in terms of π

f) Give your answer to 1 decimal place

State the value of the diameter	D = 2 x 12 = 24
Substitute in C = π x D	C = π x 24 =
Find the arc length	
Add any straights to make full perimeter	= =
Calculate	=
Round to 1 d. p.	=

Name……

5) Work out the perimeter of the quarter circle below

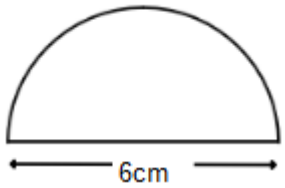


g) Give your answer in terms of π

h) Give your answer to 1 decimal place

State the value of the diameter	D = =
Substitute in C = π x D	C = =
Find the arc length	
Add any straights to make full perimeter	= =
Calculate	=
Round to 1 d. p.	=

6) Work out the perimeter of the semi circle below



i) Give your answer in terms of π

j) Give your answer to 1 decimal place

State the value of the diameter	D = =
Substitute in C = π x D	C = =
Find the arc length	
Add any straights to make full perimeter	= =
Calculate	=
Round to 1 d. p.	=