Circles

UNIT 4: Area of circles

QUESTION **1**   Calculate the area of the following circles correct to one decimal place using the calculator value of π.

a
3 cm

_____

_____

b
5 cm

_____

_____

c
9 cm

_____

_____

d
13 cm

_____

_____

e
17 cm

_____

_____

f
19 cm

_____

_____

g
8 cm

_____

_____

h
10 cm

_____

_____

i
22 cm

_____

_____
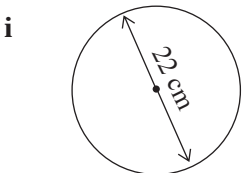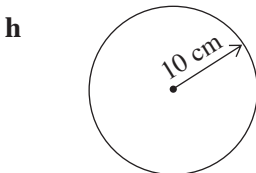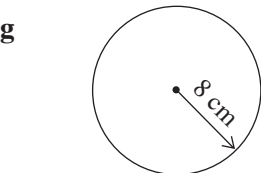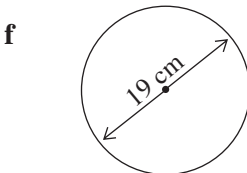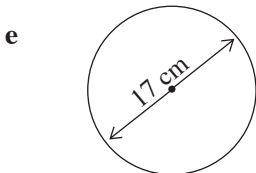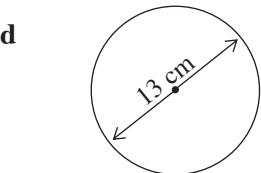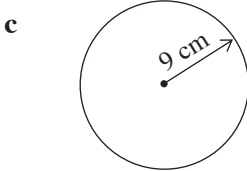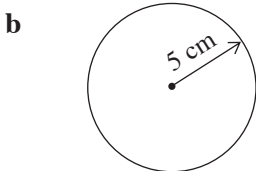
QUESTION **2**   By using $\frac{22}{7}$ as the value of π, find the approximate area of these circles.

a
7 cm

_____

_____

b
35 cm

_____

_____
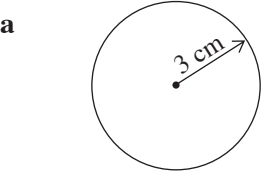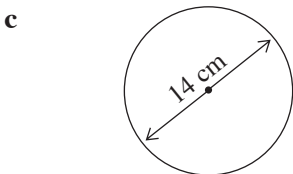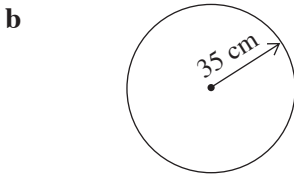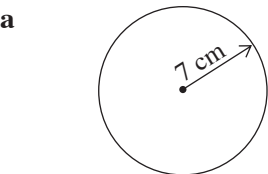
c
14 cm

_____

_____

QUESTION **3**   Find the area, to one decimal place, of a circle with:

a   radius 25 km

_____

_____

_____

b   radius 1.8 m

_____

_____

_____

c   diameter 37 mm

_____

_____

_____

d   radius 73 cm

_____

_____

_____

e   diameter 400 km

_____

_____
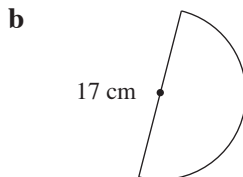
_____

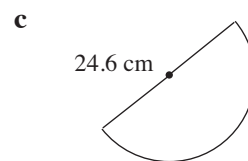**f**   diameter 13.9 cm

_____

_____

_____

Circles

UNIT 5: Applications of area

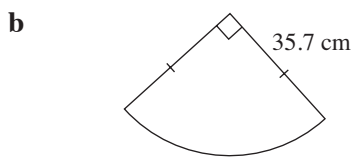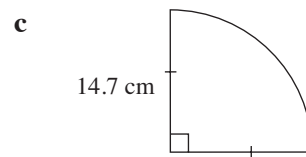QUESTION **1**   Calculate the area of the following semicircles correct to one decimal place.

a

15 cm

_____
_____
_____

b

17 cm

_____
_____
_____

c

24.6 cm

_____
_____
_____
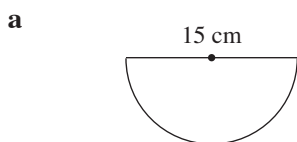
QUESTION **2**   Find the area of these quadrants correct to one decimal place.

a

21 cm

_____
_____
_____

b

35.7 cm

_____
_____
_____

c

14.7 cm

_____
_____
_____
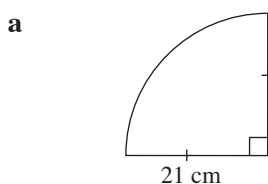
QUESTION **3**   Find the area of these shapes correct to one decimal place.

a

15 cm

18 cm

_____
_____
_____

b

14.7 cm

_____
_____
_____

c

4 cm   4 cm

28 cm

_____
_____
_____

d

14 cm

_____
_____
_____

e

6.7 cm

_____
_____
_____

f

40 cm

17 cm

40 cm

_____
_____
_____

g

9 cm

_____
_____
_____

h

14 cm

9 cm

_____
_____
_____

i

40 cm

20 cm

36 cm

_____
_____
_____