Corbett maths

Examples

Workout

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Question 1: Calculate the circumference of the following circles.
Give your answers to 1 decimal place.

* Show the formula and all your work

(a)
$= \pi \times d$
$= 3.14 \times 10 \, cm$
$= 31.4 \, cm$

10cm

(b) 7cm

(c) 3mm

(d) 6m

(e) 0.5m

(f) 9cm

(g) 25cm

(h) 1.3m
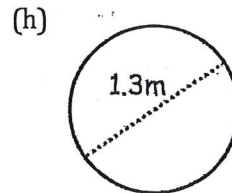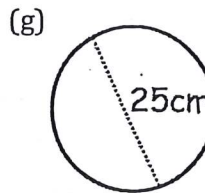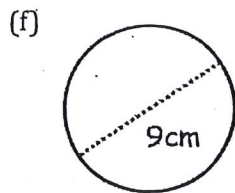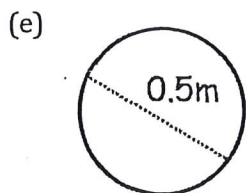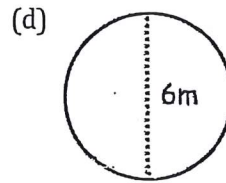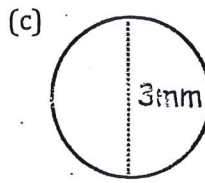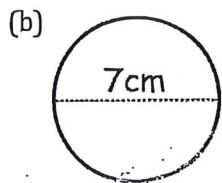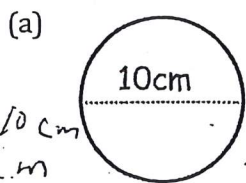
Question 2: Calculate the circumference of the following circles.
Give your answers to 1 decimal place.

(a) 4cm

(b) 32cm

(c) 8cm

(d) 5.5mm

(e) 50cm

(f) 7mm

(g) 71cm

(h) 0.8m
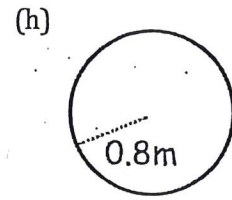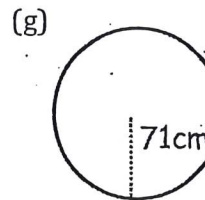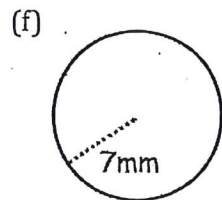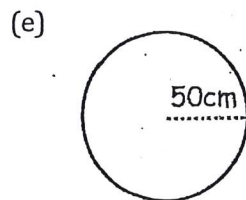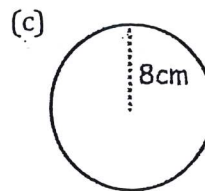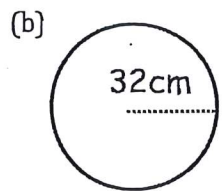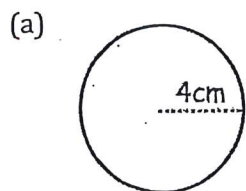
Question 3: Work out the circumference of the following circles.
Give your answers to 1 decimal place.

(a) A circle with diameter 2cm
(b) A circle with diameter 14m
(c) A circle with radius 3cm
(d) A circle with radius 0.15km
(e) A circle with diameter 90 inches
(f) A circle with radius 5.7 yards

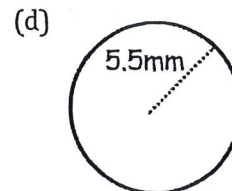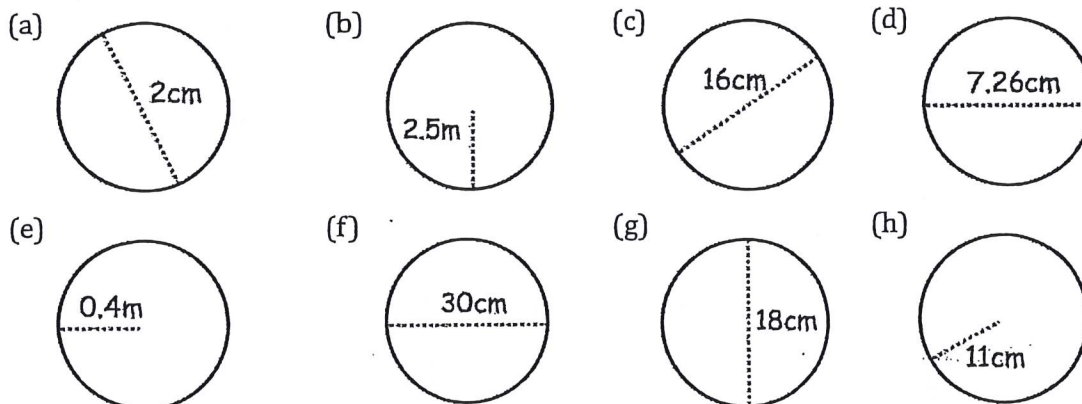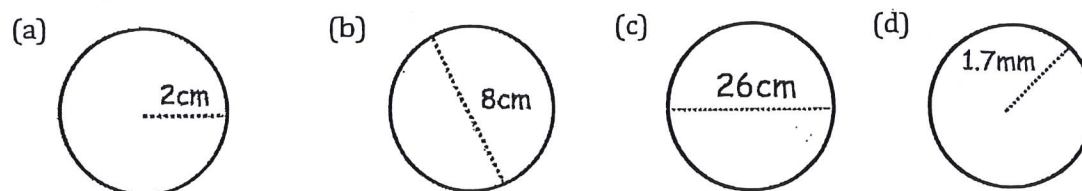**Question 4:** Calculate the circumference of the following circles.
Give your answers to 1 decimal place.

(a)

2cm

(b)

2.5m

(c)

16cm

(d)

7.26cm

(e)

0.4m

(f)

30cm

(g)

18cm

(h)

11cm

Question 5: Calculate the circumference of the following circles.
Leave your answer in terms of π

(a)

2cm

(b)

8cm

(c)

26cm

(d)

1.7mm

Question 6: Work out the circumference of the following circles.
Leave your answer in terms of π

(a) A circle with diameter 12cm
(b) A circle with diameter 52cm
(c) A circle with radius 10cm
(d) A circle with diameter 3cm
(e) A circle with radius 4km

Question 7: Find the size of the diameter for each of the following circles.
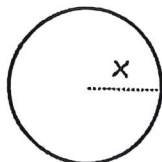Give your answer to 2 decimal places.

(a) Circumference = 12cm

x

(b) Circumference = 50cm

x

(c) Circumference = 3m

x

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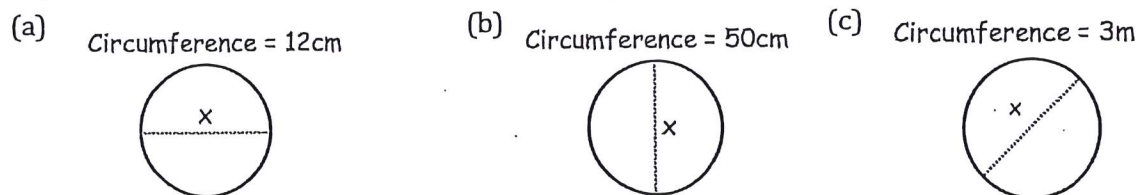
Question 8: Find the size of the radius for each of the following circles.
Give your answer to 2 decimal places.

(a)
Circumference = 80cm
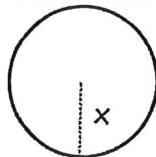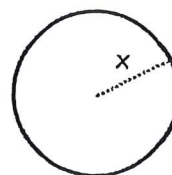
$\times$

(b)
Circumference = 42m

$\times$
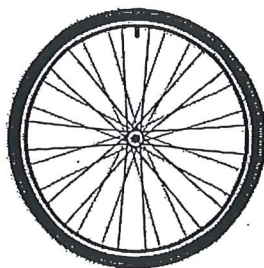
(c)
Circumference = 2m

$\times$

Apply

Question 1: A circular table top has a diameter of 85cm. Work out the circumference of the table top.
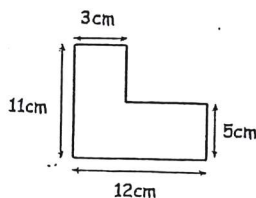
Question 2: A pizza has a circumference of 50cm. Work out the diameter of the pizza.

Question 3: A bicycle wheel has a diameter of 62cm. The wheel makes 80 complete revolutions.
How far has the bicycle travelled?
Give your answer in metres.

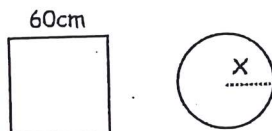**Question 4:** Which shape has the greatest perimeter?

3cm

11cm

5cm

12cm

7cm

Shape A

Shape B

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Question 5: The circle and the square have the same perimeter.
Calculate the value of x.

60cm

x

Question 6: A wheel has a diameter of 15cm.
The wheel travels 50 metres.
How many complete revolutions does the wheel complete?

Question 7: Calculate the perimeter of the pink shape.

5cm

8cm
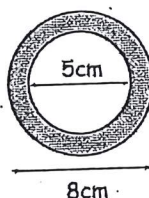
Question 8: Nicole is a wedding organiser.
The guests are to sit at circular tables with a diameter of 180cm.
Each guest needs 70cm around the circumference of the table.
There are 18 tables at the venue.
A total of 145 guests are attending the wedding.
Are there enough tables?

Question 9: The area of a circle is 40cm.
Calculate the circumference of the circle.

Question 10: The circumference of a circle is 1m.
Calculate the area of the circle.

Answers

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