THIRD SPACE LEARNING

GCSE Exam Questions

Circumference of a Circle | Geometry & Measure

GCSE Exam Questions: Circumference of a Circle

1) The diameter of a wheel on Peter's bicycle is $0.65m$.

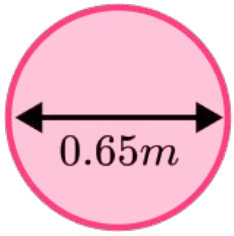


*Diagram **NOT** accurately drawn*

Calculate the circumference of the wheel.

Give your answer correct to 2 decimal places.

_____ m

(2 marks)

2) Below is a semicircle.

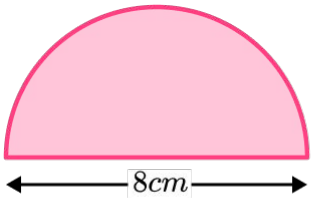


*Diagram **NOT** accurately drawn*

The diameter of the semicircle is $8cm$.

Work out the perimeter.

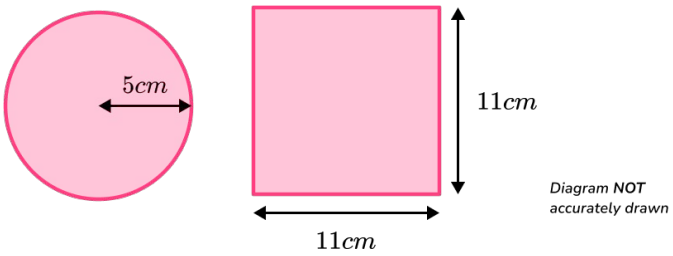
Give your answer correct to 3 significant figures.

_____ cm

(3 marks)

GCSE Exam Questions: Circumference of a Circle

3) A circle has a radius of $5cm$. A square has a side length of $11cm$.



Work out the difference between the perimeter of the circle and the perimeter of the square. Give your answer correct to 1 decimal place.

.....cm

(4 marks)

4) A circular mirror has a diameter of $1.5m$. Work out the circumference of the mirror. Give your answer in terms of π.

.....m

(2 marks)

GCSE Exam Questions: Circumference of a Circle

5) A circular picture frame has a circumference of $37.7cm$.
Calculate the diameter of the picture frame.

.....cm

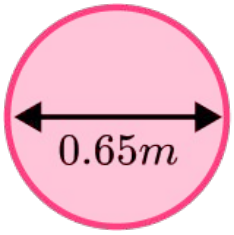
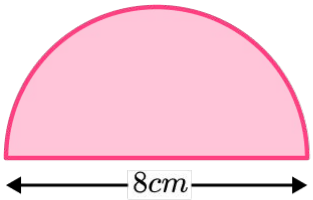
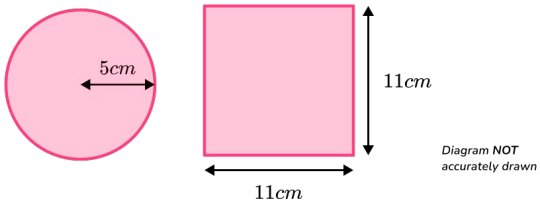
(2 marks)

6) The circumference of a circle is $19.5cm$. Work out the length of the radius of the circle. Give your answer correct to 1 decimal place.

.....cm

(3 marks)

GCSE Exam Questions: Circumference of a Circle Answers

	Question	Answer	Marks
1)	The diameter of a wheel on Peter's bicycle is 0.65m. Calculate the circumference of the wheel. Give your answer correct to 2 decimal places.  *Diagram NOT accurately drawn*	$0.65 \times \pi$ 2.042035225… $2.04m$	**(1)** **(1)**
2)	Below is a semicircle.  *Diagram NOT accurately drawn* The diameter of the semicircle is $8cm$. Work out the perimeter. Give your answer correct to 3 significant figures.	$8 \times \pi \div 2$ (= 12.566...) 12.566... + 8 (= 20.566...) $20.6cm$	**(1)** **(1)** **(1)**
3)	A circle has a radius of $5cm$. A square has a side length of 11cm.  *Diagram NOT accurately drawn* Work out the difference between the perimeter of the circle and the perimeter of the square. Give your answer correct to 1 decimal place.	$10 \times \pi$ (= 31.41...) 11×4(= $44cm$) 44 - 31.41...(= 12.58...) $12.6cm$	**(1)** **(1)** **(1)** **(1)**
4)	A circular mirror has a diameter of $1.5m$. Work out the circumference of the mirror. Give your answer in terms of π.	$1.5 \times \pi$ 1.5π	**(1)** **(1)**

GCSE Exam Questions: Circumference of a Circle Answers

	Question	Answer	Marks
5)	A circular picture frame has a circumference of 37.7*cm*. Calculate the diameter of the picture frame.	$37.7 \div \pi$ $12cm$	**(1)** **(1)**
6)	The circumference of a circle is 19.5*cm*. Work out the length of the radius of the circle. Give your answer correct to 1 decimal place.	$19.5 \div \pi$ $6.207... \div 2$ $3.1\ cm$	**(1)** **(1)** **(1)**

Where to go next?

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