

Acumen Teach To the point

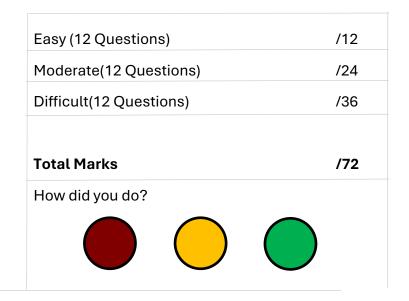
Geometry Master-box

Geometry — Measurements — Mathematical knowledge application — Data Analysis — Calculator — Shapes — Real life and context application.



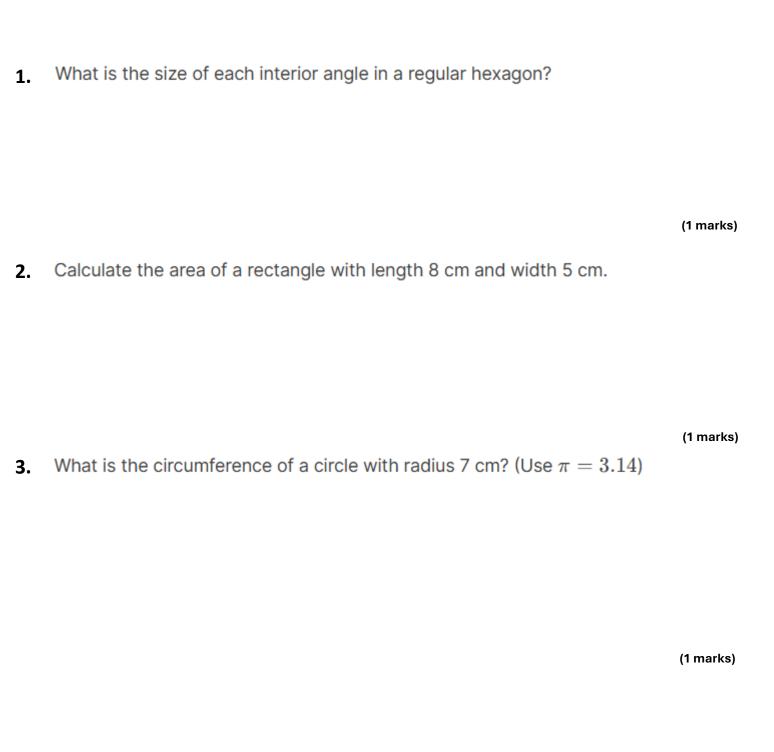








Easy Questions





4.	A triangle has angles of 30°, 60°, and 90°. What type of triangle is this?	
5.	Convert 5.2 km into metres.	(1 marks)
6.	What is the perimeter of a square with side length 6 cm?	(1 marks)
7.	Calculate the volume of a cube with edge length 4 cm.	(1 marks)
		(1 marks)
8.	What is the size of one exterior angle of a regular pentagon?	
		(1 marks)



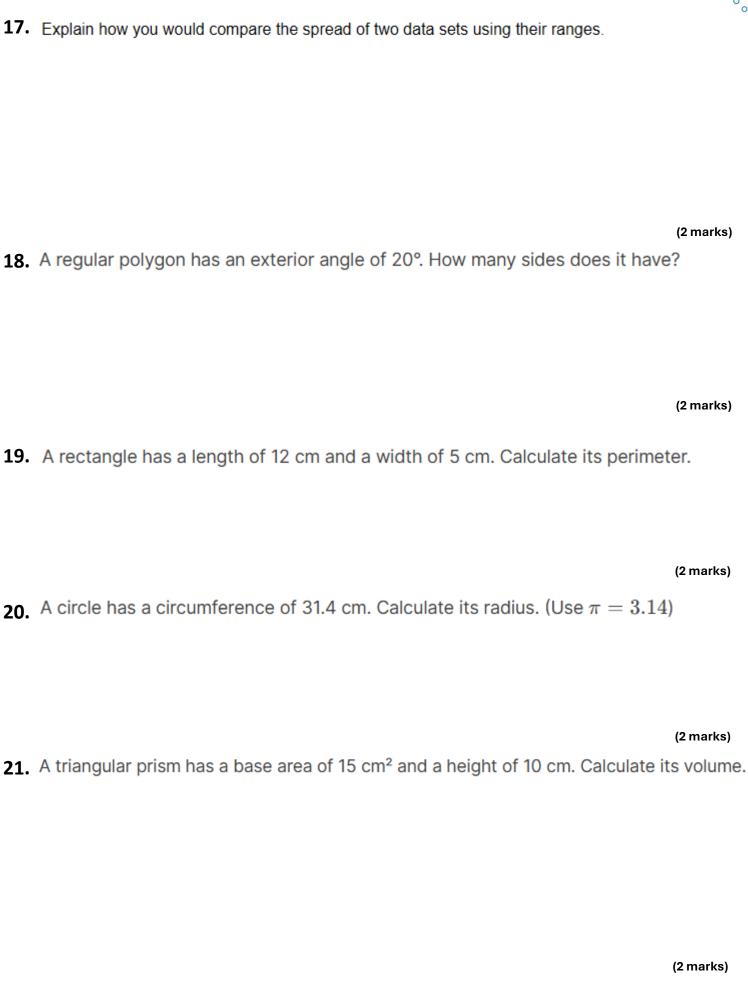
A circle has a diameter of 10 cm. What is its radius? (1 marks) 10. Calculate the area of a triangle with base 10 cm and height 6 cm. (1 marks) 11. What is the sum of the interior angles of a quadrilateral? (1 marks) 12. Convert 4500 grams into kilograms. (1 marks)



Moderate Questions

13.	A parallelogram has a base of 12 cm and a height of 7 cm. Calculate its area.
14.	(2 marks) A sector of a circle has a radius of 8 cm and an angle of 45°. Calculate the area of the sector
15.	(2 marks) A trapezium has parallel sides of 10 cm and 6 cm, and a height of 4 cm. Calculate its area
16.	A cylindrical can has a radius of 5 cm and a height of 12 cm. Calculate its volume. (Use π $3.14)$
	(2 marks)







22. A rhombus has diagonals of 10 cm and 8 cm. Calculate its area.

(2 marks)

23. A cube has a surface area of 150 cm². Calculate the length of one edge.

(2 marks)

24. A circle has an area of 78.5 cm². Calculate its radius. (Use $\pi=3.14$)

(2 marks)



Difficult Questions



(3 marks)

26. A cone has a radius of 5 cm and a slant height of 13 cm. Calculate its total surface area. (Use $\pi=3.14$)

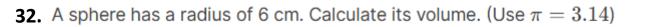
(3 marks)

27. A cylindrical tank has a diameter of 14 cm and a height of 20 cm. Calculate its volume. (Use $\pi=3.14$)

(3 marks)

28.	A right-angled triangle has a hypotenuse of 15 cm and one side of 9 cm. Calculate the the other side.	e length of
29.	A sector of a circle has an area of 50 cm² and a radius of 10 cm. Calculate the ang sector. (Use $\pi=3.14$)	(3 marks) le of the
		(3 marks)
30.	A rectangular prism has a volume of 240 cm³, a length of 8 cm, and a width of 5 cm its height.	. Calculate
31.	A regular octagon has a side length of 7 cm. Calculate its perimeter.	(3 marks)
		(3 marks)





(3 marks)

33. A trapezium has an area of 60 cm², parallel sides of 8 cm and 12 cm, and a height of 5 cm. Verify that the area is correct.

(3 marks)

34. A circle has a circumference of 62.8 cm. Calculate its area. (Use $\pi=3.14$)

(3 marks)

35. A triangular prism has a base area of 12 cm² and a volume of 72 cm³. Calculate its height.

(3 marks)

36. A pyramid has a square base with side length 10 cm and a height of 12 cm. Calculate its volume.

(2 marks)