Arithmetic

1. 58,600 ÷ 8

2. 32% x 670

3. 2.6 x 4.6

4. 36,259 + 85,247

Practice: Parts of a Circle

5. Recap: Define the words:
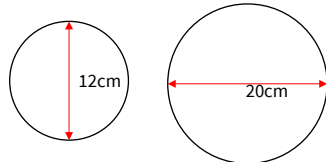Circumference
Radius
Diameter

6. Complete the sentence.

The diameter is ? the radius of a circle.

7. Find the radius of the circles.

12cm

20cm

8. What is the diameter of the circle if the radius is:

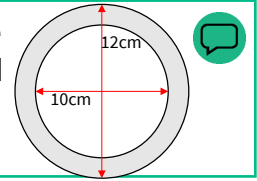a. 3cm   b. 5cm   c. 8cm

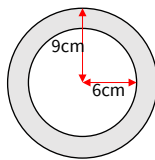**9.** What is the radius of the circle if the diameter is:
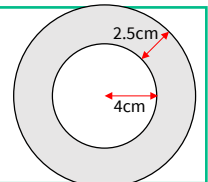
a. 14cm   b. 9cm   c. 25cm

10. Both circles have the same centre. Explain how you would find the radius of both circles.
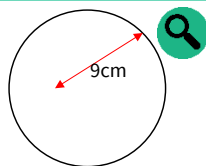
12cm

10cm

11. Both circles have the same centre. What is the diameter of each circle?

9cm

6cm

12. Both circles have the same centre. What is the radius and diameter for each circle?

2.5cm

4cm

13. Callum says he has found the radius of the circle. Is he correct? Explain.

9cm

14. Always, sometimes, never.

Lines starting from the circumference showing the radius and diameter do not need to touch or pass through the centre of the circle.

Prove your answer.

Challenge

You might want to talk to an adult

Spot the mistake

Answers

Q no.	Question	Answer
1	58,600 ÷ 8	7,325
2	32% x 670	214.4
3	2.6 x 4.6	11.96
4	36,259 + 85,247	121,506
5	Define the words: Circumference , Radius, Diameter	The circumference is the edge of a circle. The radius is the distance from the centre of a circle to any point on its circumference. The diameter is a straight line that touches two points on the circumference of a circle and passes through the centre.
6	Complete the sentence.	The diameter is double the radius of a circle.
7	Find the radius of the circles.	a. 6cm, b. 10cm
8	What is the diameter of the circle if the radius is:	a. 6cm, b. 10cm, c. 16cm
9	What is the radius of the circle if the diameter is:	a. 7cm, b. 4.5cm, d. 12.5cm
10	Both circles have the same centre. Explain how you would find the radius of both circles.	As both circles share the same centre, the information given can be used to calculate the radius and diameter as usual.
11	Both circles have the same centre. What is the diameter of each circle?	Smaller circle - 12cm, larger circle - 18cm
12	Both circles have the same centre. What is the radius and diameter for each circle?	Smaller circle - radius is 4cm, diameter is 8cm. Larger circle - radius is 6.5cm, diameter is 13cm
13	Callum says he has found the radius of the circle. Is he correct? Explain.	Callum is incorrect as he has not drawn a line from the circumference to the centre of the circle. The radius must always be a line from the circumference of a circle to the centre point.
14	Always, sometimes, never. Lines starting from the circumference showing the radius and diameter do not need to touch or pass through the centre of the circle. Prove your answer.	Never. Lines showing the radius and diameter always need to touch or pass through the centre of a circle. Lines touching two points of the circumference but not the centre of the circle are chords.

For more free resources and intervention support go to thirdspacelearning.com