Circles

1 Use the words to label the parts of the circle.
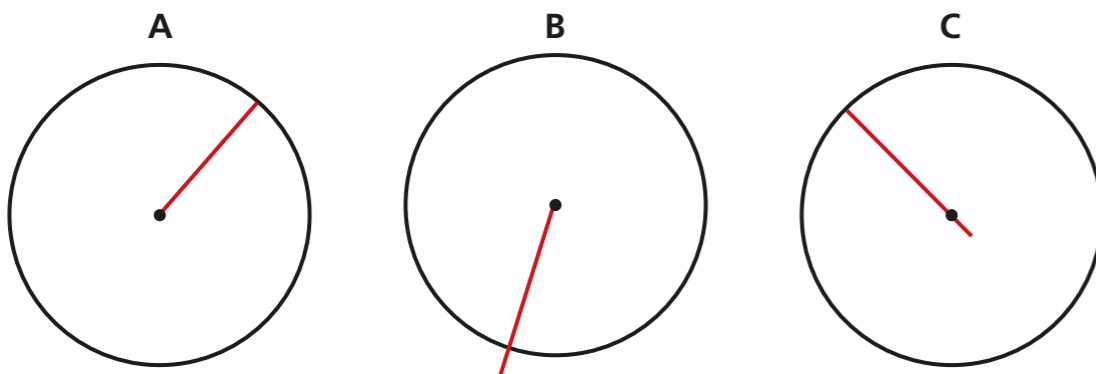
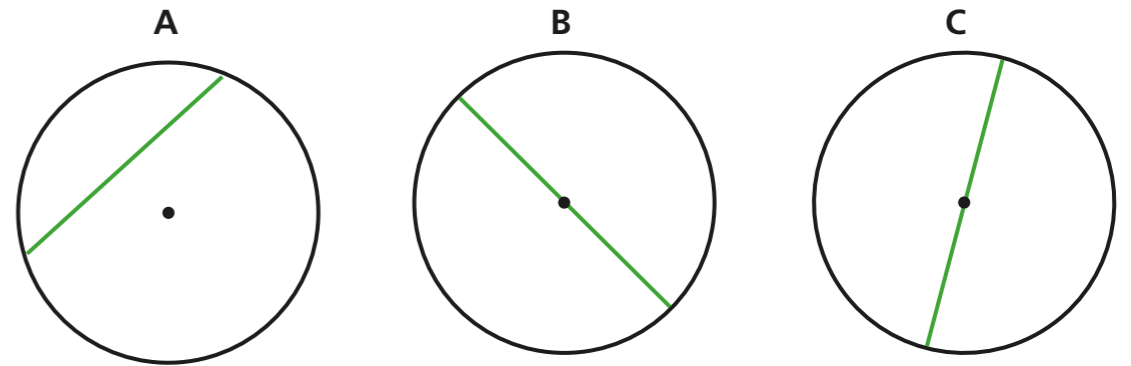| radius | diameter | circumference | centre |

diameter

Circumference

radius

Centre
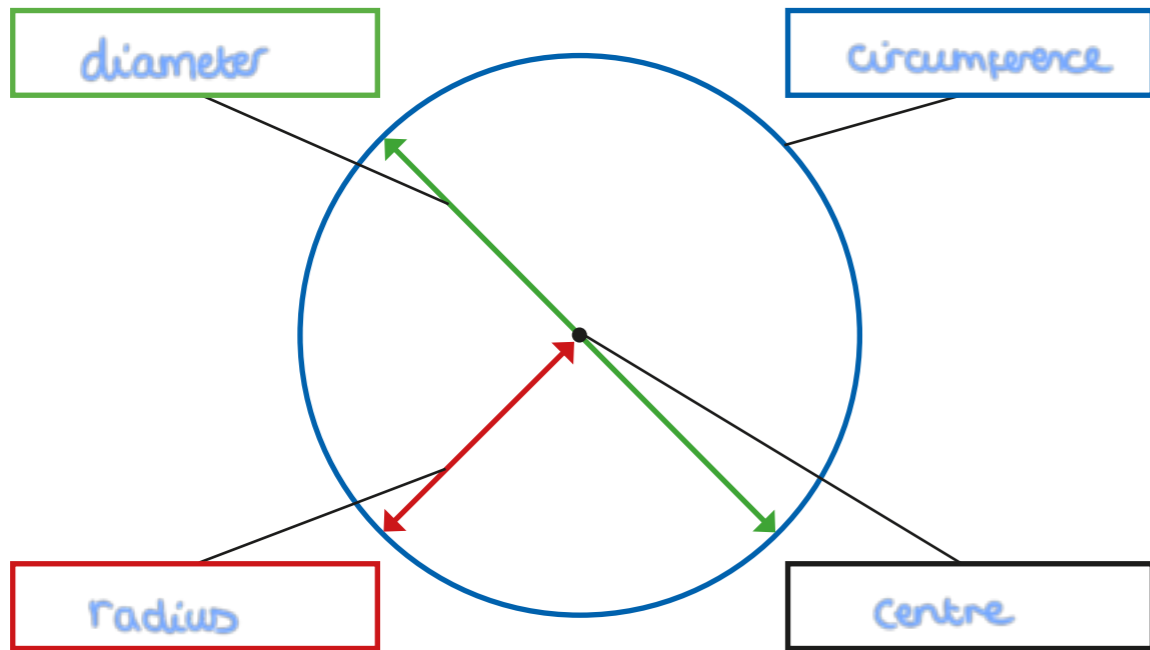
2 All the circles show a radius.

A   B   C

Is the statement true or false? _false_
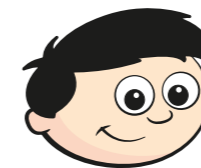
Explain your answer.

3 All the circles show a diameter.

A   B   C

Is the statement true or false? _false_

Explain your answer.

4

I know the radius of a circle is 12 cm, so the diameter must be 6 cm.
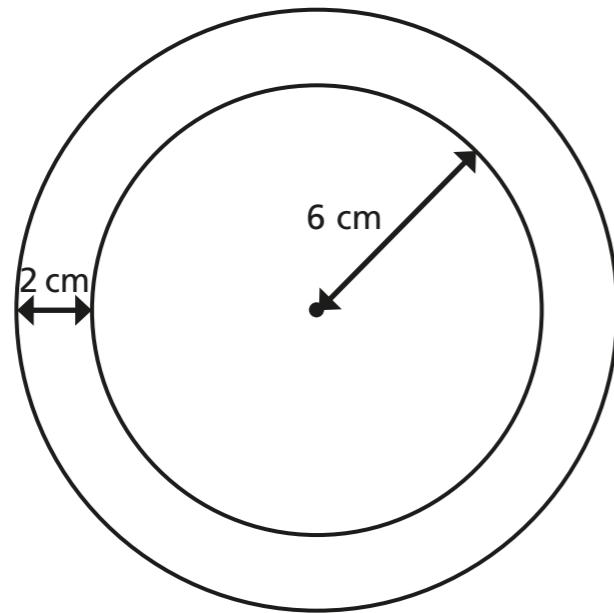
Do you agree with Dexter? _No_

Explain your answer.

If the radius is 12 cm then the diameter must be 24 cm.

5 Complete the table.

Radius	Diameter
4 cm	8 cm
6 m	12 m
4·5 mm	9 mm
3.5 km	7 km
6·3 cm	12.6 cm

6 The two circles have the same centre.

6 cm

2 cm

Complete the sentences.

The radius of the inner circle is | 6 cm |

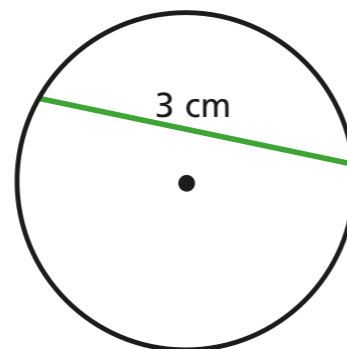The diameter of the inner circle is | 12 cm |

The radius of the outer circle is | 8 cm |

The diameter of the outer circle is | 16 cm |

7 Annie thinks she has accurately measured and labelled the diameter of the circle.
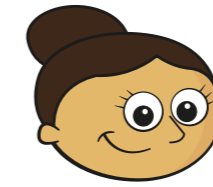
3 cm

a) Is Annie correct? __No__

Explain your answer.

__It doesn't go through the centre.__

b) Is the diameter greater or less than 3 cm?

Explain how you know to a partner.

8

The diameter of a circle is always greater than the radius.

Is Dora correct? __Yes__
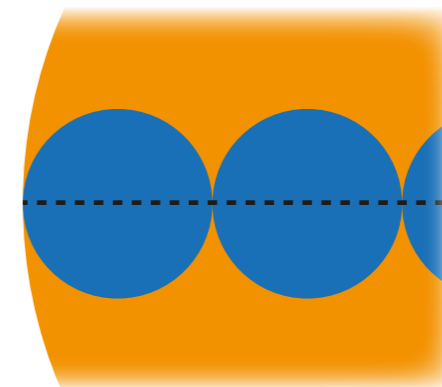
Explain your answer.

__The diameter is always twice the radius.__

9 Filip has a large circle with a diameter of 20 cm.

He also has several smaller circles with a radius of 2 cm.

He places the small circles along the diameter of the larger circle as shown.

How many small circles will fit across the larger circle?

| 5 | small circles