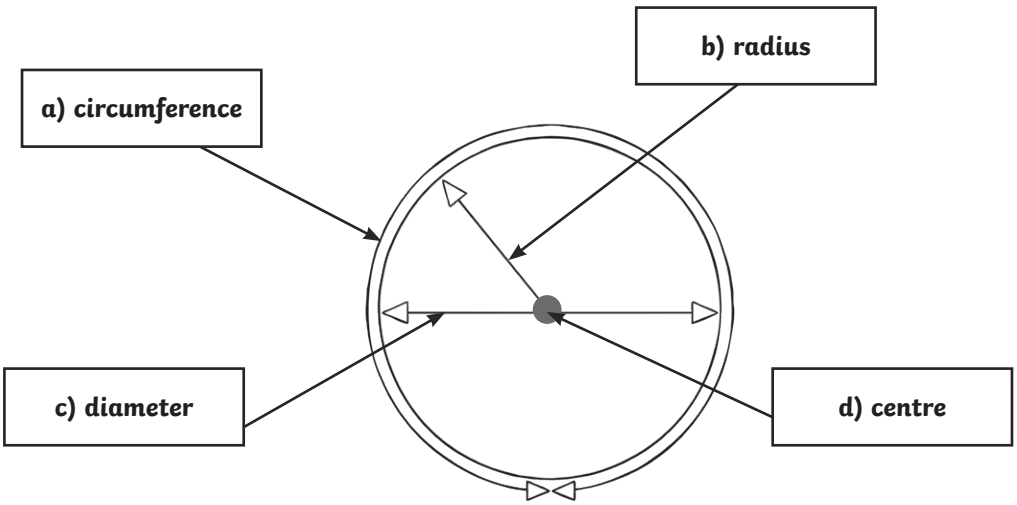
1)



2) **twice**
half

3)

	Radius	Diameter
A	**6cm**	**12cm**
B	**4cm**	**8cm**
C	**8cm**	**16cm**

4)

Radius	Diameter
5.5cm	**11cm**
6.5cm	13cm
3.75cm	**7.5cm**

1) They are both incorrect. The diameter and radius should be measured using the centre of a circle. The diameter goes from one point on the circumference through the centre and straight across to the opposite point of the circumference. The radius goes from the centre of the circle to one point on the circumference.

2) a) False. The radius is half the diameter.

   b) True. The radius of a circle is half the diameter so 7cm divided by 2 is 3.5cm.

   c) False. The radius is half the diameter so it is always smaller.

3) Possible solutions include:

Diameter of A	Diameter of B
3cm	18cm
12cm	72cm
2cm	12cm

4) 35mm = 3.5cm

   3.5cm × 6 = 21cm

   21cm + 4cm = 25cm

   The largest circle has a diameter of 25cm.

1) Each circle has a radius of 2.5cm.
   The rectangle is 15cm in length and fits 3 circles in. 15cm ÷ 3 = 5cm
   The diameter of each circle is 5cm. The radius of a circle is half its diameter.
   5cm ÷ 2 = 2.5cm

2) a) Cake C, E and F in one box and cake A, B and D in the other.

   b) 10.5cm