1) Use the words below to complete the labels to show the parts of a circle.

2) Copy and complete these sentences.

The diameter of a circle is $\qquad$ the length of the radius.

The radius of a circle is $\qquad$ the length of the diameter.
3) Find the diameter and radius of these objects.
a)

b)


Radius: $\qquad$
Diameter: $\qquad$
Radius: $\qquad$
Diameter: $\qquad$


Radius: $\qquad$
Diameter: $\qquad$
4) Copy and complete the table.

| Radius | Diameter |
| :---: | :---: |
| 5.5 cm |  |
|  | 13 cm |
| 3.75 cm |  |

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1) Jack says this is the diameter of the circle. Kia says this is the radius of the circle.

Who do you agree with?
Explain your answer.

2) True or false? Prove it!
a) The radius of a circle is twice its diameter.
b) A circle with a diameter of 7 cm has a radius of 3.5 cm .
c) The radius of a circle can be bigger than its diameter.
3) The diameter of circle $A$ is $\frac{1}{3}$ of the radius of circle B. Find 3 examples of their diameters that make this statement true.
4) Here are 4 concentric circles. The radius of the smallest circle is 2 cm . The gap between the remaining circles is 35 mm .
What is the diameter of the largest circle?
Show how you know.
Concentric circles are circles with a common centre.

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1) This design is made from a rectangle and three congruent circles.
The length of the rectangle is 15 cm .


What is the radius of each circle?
Explain your answer.


Not to scale
2) Tayla is packing cakes into boxes, ready to send out to the shops.

Here are her cakes:


Not to scale

$R$-radius $D$-diameter

They must be packed in a row, next to each other.
They must all be packed into these 2 boxes which each have a length of 13 cm .
a) How should Tayla arrange them?

b) Tayla now wants to pack them in 2 rows in one box. The length of the box is 13 cm . What is the minimum width it could be?

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