

**Lesson 3**




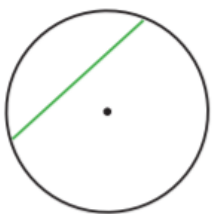
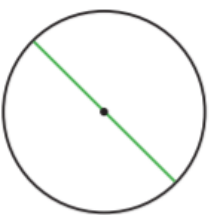
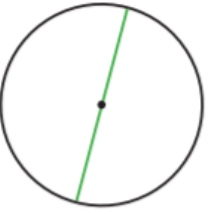
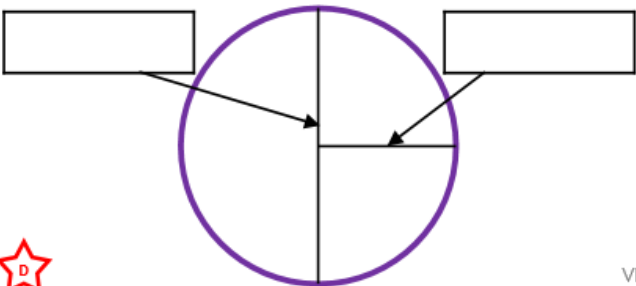
L.O I am learning to name and understand the relationship between parts of a circle

|             |   |
|-------------|---|
| <b>All</b>  | All of you must complete the fluency section.                                   |
| <b>Most</b> | Most of you will complete the fluency and reasoning sections.                   |
| <b>Some</b> | Some of you will complete the fluency, reasoning, and problem-solving sections. |

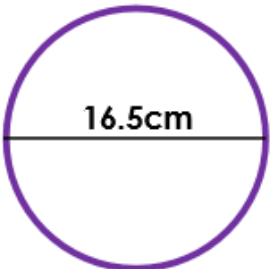
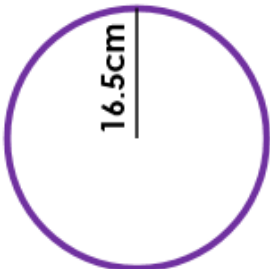
Try your best – it is all we can ask for! 😊

This video may help if you are stuck at any point:  
<https://corbettmathsprimary.com/2018/06/01/parts-of-the-circle-video/>



**Fluency**

| Key vocabulary: circle, circumference, radius, diameter, centre   | Your answer                   |
|---|-------------------------------|
| <p>The radius has been marked on each circle.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p><b>A</b></p>  </div> <div style="text-align: center;"> <p><b>B</b></p>  </div> <div style="text-align: center;"> <p><b>C</b></p>  </div> </div> <p>Is the statement true or false? _____</p> <p>Explain your answer.</p>      | <p>A-</p> <p>B-</p> <p>C-</p> |
| <p>The diameter has been marked on each circle.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p><b>A</b></p>  </div> <div style="text-align: center;"> <p><b>B</b></p>  </div> <div style="text-align: center;"> <p><b>C</b></p>  </div> </div> <p>Is the statement true or false? _____</p> <p>Explain your answer.</p> | <p>A-</p> <p>B-</p> <p>C-</p> |
| <p><b>2a. Use the measurements below to label the radius and diameter.</b></p> <div style="display: flex; justify-content: center; gap: 50px; margin-bottom: 10px;"> <p>6cm</p> <p>12cm</p> </div> <div style="text-align: center;">  </div>   |                               |



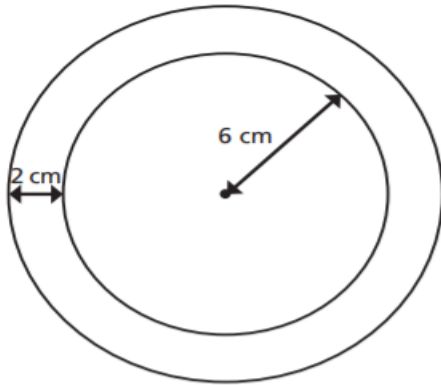
|   |  |
|---|--|
| <p><b>Match each radius to its diameter.</b></p> <p><b>49.5m</b>                      <b>107m</b></p> <p><b>53.5m</b>                      <b>99m</b></p> <p><b>25.5m</b>                      <b>83m</b></p> <p><b>41.5m</b>                      <b>51m</b></p>   |  |
| <p><b>5a. Tick the circle which has a radius of 16.5cm.</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p><b>A</b></p>  </div> <div style="text-align: center;"> <p><b>B</b></p>  </div> </div> |  |

### Reasoning

| Key vocabulary: circle, circumference, radius, diameter, centre   | Your answer |
|---|-------------|
| <p>1a. Jeremy says:</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: fit-content;"> <p>If the radius of a circle is 11 cm then the diameter must be 20cm.</p> </div> </div> <p>Is he correct?</p> <p>Explain your answer.</p> |             |
| <p>5b. Find the diameter of the pizza.</p> <div style="text-align: center; margin-top: 20px;">  </div> <p>Explain how you know.</p>  |             |

Week 4\_Maths\_Lesson 3

The two circles have the same centre.



Complete the sentences.

The radius of the inner circle is

The diameter of the inner circle is

The radius of the outer circle is

The diameter of the outer circle is

### Problem Solving

Key vocabulary: circle, circumference, radius, diameter, centre

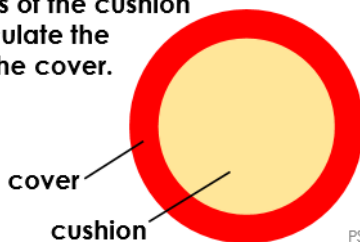
Your answer

3a. A cushion needs a larger cover.

The cover is  $\frac{1}{4}$  bigger than the cushion.

i) If the cushion diameter is 40cm, calculate the cover diameter.

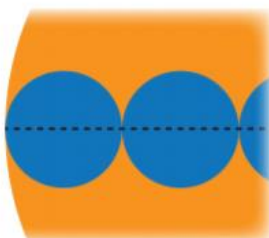
ii) If the radius of the cushion is 12cm, calculate the diameter of the cover.



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?

Read the question carefully!

**Extension**

Key vocabulary: circle, circumference, radius, diameter, centre

**Your answer**

**6a. New lenses are needed for some glasses.**

The frames must be  $\frac{1}{7}$  bigger than the lenses.

Calculate the missing sizes.



| Lens Radius | Frame Diameter |
|-------------|----------------|
|             | 42mm           |
| 28mm        |                |



PS