Radius and Diameter

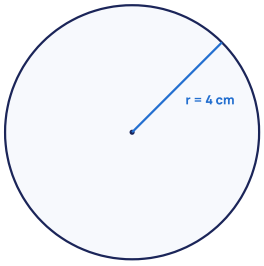
MathApex

Name: _____ Date: _____

Watch video

From the video Radius 3 cm → diameter **2 × 3 = 6 cm**

1 Now it's your turn!



The radius is 4 cm. How long is the diameter?

The diameter goes right through the middle of the circle, all the way across: two radii.

2 × ☐ = ☐ cm

2 Radius and diameter.

	d
r = 6 cm	
r = 2 cm	
r = 7 cm	

	r
d = 10 cm	
d = 12 cm	
d = 14 cm	

3 Draw with a compass.

Draw a circle around point M with a radius of 1.5 cm.

M

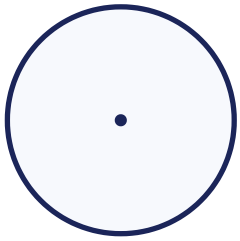
4 Words only.

a) A round plate has a diameter of 30 cm. What is the radius?

30 ÷ 2 = ☐ cm

b) The radius is doubled. What happens to the diameter?

5 Think backwards.



Draw in the diameter and measure it with a ruler. What is the radius?

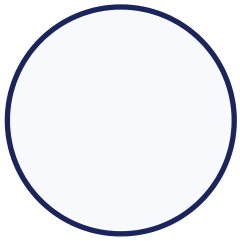
d = ☐ cm

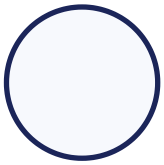
r = ☐ cm

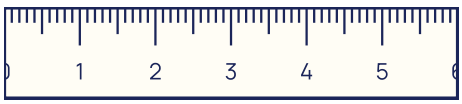
★ Brain teaser

Two circles of the same size with a radius of 4 cm lie next to each other and touch. How wide are both together?

6 Measure the diameter.







Lay the ruler through the middle. Write d and r next to each circle.

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MATH STORY 61 · ANSWERS

Radius and Diameter

Watch video

1 Now it's your turn!

2 × 4 = 8 cm

2 Radius and diameter.

r = 6 cm → d = 12 cm
r = 7 cm → d = 14 cm
d = 12 cm → r = 6 cm
r = 2 cm → d = 4 cm
d = 10 cm → r = 5 cm
d = 14 cm → r = 7 cm

3 Draw with a compass.

Set the compass to 1.5 cm, point in M. The circle is then 3 cm wide.

4 Words only.

30 ÷ 2 = 15 cm
The diameter is doubled too.

5 Think backwards.

d = 3 cm, r = 1.5 cm

★ Brain teaser

4 × 4 = 16 cm

Two diameters side by side.

6 Measure the diameter.

left: d = 3 cm, r = 1.5 cm **right: d = 2 cm, r = 1 cm**

For parents and teachers: This worksheet goes with the video "Radius and Diameter" (Math Story 61, Grade 4). The diameter is twice as long as the radius. The circles in tasks 5 and 6 are printed at actual size and can be measured.

More Math Stories with video and worksheet: **www.mathapex.app/en/math-stories/**