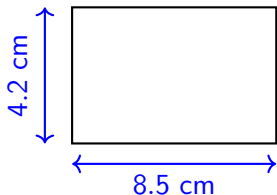


Circles: Parts, Perimeter & Pi

Starter



1. $13 + 9 = ?$

2. $5.8 - 1.9 = ?$

3. $6 \times 8 = ?$

4. $4 \times 3.5 = ?$

5. Round 3.14159 to 2 decimal places.

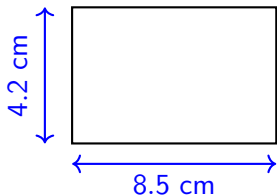
6. A pencil is 12.8 cm long. How many millimetres is this? _____

5. Find the perimeter of the rectangle shown.

6. The perimeter of a square is 26 cm. What is the length of one side?

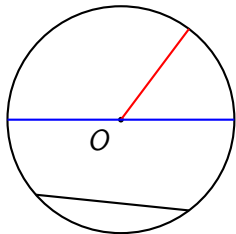
7. The perimeter of an equilateral triangle is 12.9 cm. Find the length of one side, and then the perimeter of a regular hexagon with the same side length.

Starter



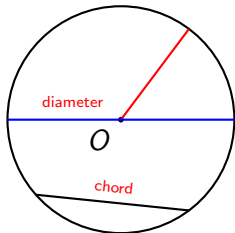
1. $13 + 9 = 22$
2. $5.8 - 1.9 = 3.9$
3. $6 \times 8 = 48$
4. $4 \times 3.5 = 14$
5. Round 3.14159 to 2 decimal places. **3.14**
6. A pencil is 12.8 cm long. How many millimetres is this? **128 mm**
5. Find the perimeter of the rectangle shown. **25.4 cm**
6. The perimeter of a square is 26 cm. What is the length of one side? **6.5 cm**
7. The perimeter of an equilateral triangle is 12.9 cm. Find the length of one side, and then the perimeter of a regular hexagon with the same side length. **4.3 cm; hexagon: 25.8 cm**

Starter



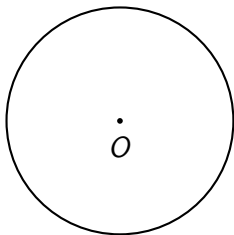
1. $24 \div 6$
2. $72 \div 8$
3. Double 15.5
4. Halve 31.4
5. How many centimetres in 1.2 metres?
6. True or false? $2.5 \times 4 = 10$
5. On the diagram, which line is the **diameter**?
How is it different from a chord?
6. If the radius of a circle is 7 cm, what is its diameter?
7. The diameter of a circle is 18 mm. Find its radius. _____
8. A chord of length 8 cm is drawn inside a circle of radius 5 cm. Is the chord a diameter? Why, or why not?.

Starter



1. $24 \div 6 = 4$
2. $72 \div 8 = 9$
3. Double $15.5 = 31$
4. Halve $31.4 = 15.7$
5. How many centimetres in 1.2 metres? 120 cm
6. True or false? $2.5 \times 4 = 10$ **True**
5. On the diagram, which line is the **diameter**?
How is it different from a chord? **A diameter passes through the centre.**
6. If the radius of a circle is 7 cm, what is its diameter? 14 cm
7. The diameter of a circle is 18 mm. Find its radius. 9 mm
8. A chord of length 8 cm is drawn inside a circle of radius 5 cm. Is the chord a diameter? Why, or why not?. **No; a diameter would be 10 cm.**

Starter



1. 3.2×5

2. 1.8×4

3. $45 \div 10$

4. $90 \div 100$

5. What is $\frac{1}{4}$ of 360° ?

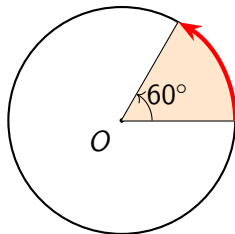
6. Copy the diagram, and draw with labels:

► A sector

► A tangent

► An arc

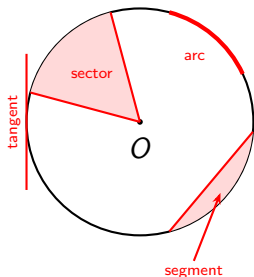
► A segment



7. If the radius is 6 cm, what is the whole circumference? (Use $\pi \approx 3.14$)

8. For the sector shown, what fraction of the circumference is the arc length? Calculate the arc length if the whole circle has a circumference of 24cm.

Starter



1. $3.2 \times 5 = 16$

2. $1.8 \times 4 = 7.2$

3. $45 \div 10 = 4.5$

4. $90 \div 100 = 0.9$

5. What is $\frac{1}{4}$ of 360° ? 90°

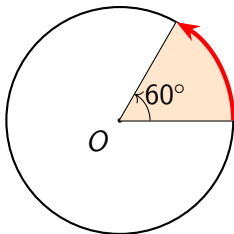
6. Copy the diagram, and draw with labels:

► A sector

► A tangent

► An arc

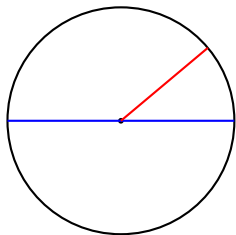
► A segment



7. If the radius is 6 cm, what is the whole circumference? (Use $\pi \approx 3.14$) 37.68 cm

8. For the sector shown, what fraction of the circumference is the arc length? Calculate the arc length if the whole circle has a circumference of 24cm. $\frac{1}{6}$; 4 cm

Starter



1. 12×3
2. 4×3.14
3. $6.28 \div 2$
4. $9.42 \div 3$
5. Round 3.14159265 to 3 decimal places.
6. Double 3.14
7. halve 12.56
8. Copy and label on the diagram: centre, radius, diameter, circumference.
9. Draw a chord on the diagram shorter than the radius
10. Draw a chord on the diagram longer than the radius
11. If the diameter is 8 cm, what is:
 - ▶ the radius?
 - ▶ the circumference? ($\pi \approx 3.14$)

Starter

- $12 \times 3 = 36$
- $4 \times 3.14 = 12.56$
- $6.28 \div 2 = 3.14$
- $9.42 \div 3 = 3.14$
- Round 3.14159265 to 3 decimal places. 3.142
- Double $3.14 = 6.28$
- halve $12.56 = 6.28$
- Copy and label on the diagram: centre, radius, diameter, circumference.
- Draw a chord on the diagram shorter than the radius
- Draw a chord on the diagram longer than the radius
- If the diameter is 8 cm, what is:
 - ▶ the radius? 4 cm
 - ▶ the circumference? ($\pi \approx 3.14$) 25.12 cm

