

Circles: Parts, Perimeter & Pi

Starter (1 of 3)

1. $13 + 9 = ?$

2. $5.8 - 1.9 = ?$

3. $6 \times 8 = ?$

Starter (1 of 3)

1. $13 + 9 = 22$

2. $5.8 - 1.9 = 3.9$

3. $6 \times 8 = 48$

Starter (2 of 3)

4. 4×3.5 ?

مقرب کرنا

اعشاریہ مقام

5. Round 3.14159 to 2 decimal places.

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

Starter (2 of 3)

4. 4×3.5 14

مقرب کرنا

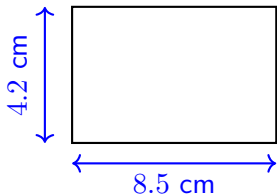
اعشاریہ مقام

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

Starter (3 of 3)



احاطه

5. Find the **perimeter** of the rectangle shown.

احاطه

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

احاطه

متساوي الاضلاع

7. The **perimeter** of an **equilateral** triangle is

12.9 cm. Find the length of one side, and then

احاطه

مسدس باقاعدہ

the **perimeter** of a **regular hexagon** with the

same side length.

Starter (3 of 3)

احاطه

5. Find the **perimeter** of the rectangle shown.

25.4 cm

احاطه

6. The **perimeter** of a square is 26 cm. What is the length of one side? 6.5 cm

احاطه

متساوي الاضلاع

7. The **perimeter** of an **equilateral** triangle is 12.9 cm. Find the length of one side, and then

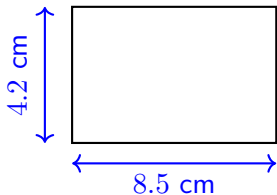
احاطه

مسدس باقاعده

the **perimeter** of a **regular hexagon** with the

مسدس

same side length. 4.3 cm; hexagon: 25.8 cm



Starter (1 of 3)

1. $24 \div 6$

2. $72 \div 8$

3. Double 15.5

4. Halve 31.4

Starter (1 of 3)

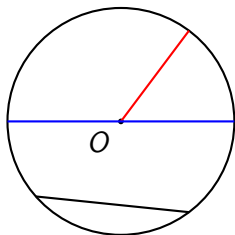
1. $24 \div 6 = 4$

2. $72 \div 8 = 9$

3. Double $15.5 = 31$

4. Halve $31.4 = 15.7$

Starter (2 of 3)



5. How many centimetres in 1.2 metres?

6. True or false? $2.5 \times 4 = 10$

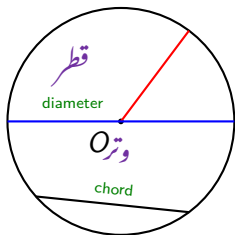
5. On the diagram, which line is the **diameter**?

قطر

How is it different from a **chord**?

وتر

Starter (2 of 3)



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.

Starter (3 of 3)

6. If the ^{نصف قطر} radius of a circle is 7 cm, what is its ^{قطر} diameter?
7. The ^{قطر} diameter of a circle is 18 mm. Find its ^{نصف قطر} radius . _____
8. A ^{وتر} chord of length 8 cm is drawn inside a circle of ^{نصف قطر} radius 5 cm. Is the ^{وتر} chord a ^{قطر} diameter? Why, or why not?.

Starter (3 of 3)

6. If the ^{نصف قطر} radius of a circle is 7 cm, what is its ^{قطر} diameter? 14 cm
7. The ^{قطر} diameter of a circle is 18 mm. Find its ^{نصف قطر} radius . 9 mm
8. A ^{وتر} chord of length 8 cm is drawn inside a circle of ^{نصف قطر} radius 5 cm. Is the ^{وتر} chord a ^{قطر} diameter? Why, or why not?. No; a ^{قطر} diameter would be 10 cm.

Starter (1 of 3)

1. 3.2×5

2. 1.8×4

3. $45 \div 10$

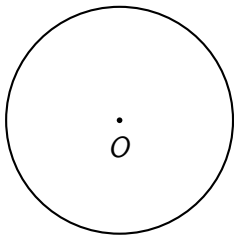
Starter (1 of 3)

1. $3.2 \times 5 = 16$

2. $1.8 \times 4 = 7.2$

3. $45 \div 10 = 4.5$

Starter (2 of 3)



4. $90 \div 100$

5. What is $\frac{1}{4}$ of 360° ?

6. Copy the diagram, and draw with labels:

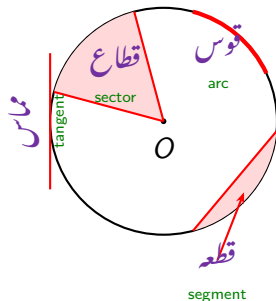
▶ A **sector** قطاع

▶ An **arc** قوس

▶ A **tangent** مماس

▶ A **segment** قطعة

Starter (2 of 3)



4. $90 \div 100 = 0.9$

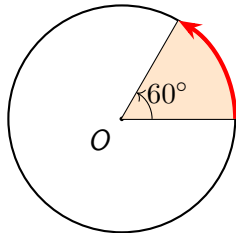
5. What is $\frac{1}{4}$ of 360° ? 90°

6. Copy the diagram, and draw with labels:

- ▶ A **قطاع** sector
- ▶ An **قوس** arc

- ▶ A **مماس** tangent
- ▶ A **قطعة** segment

Starter (3 of 3)

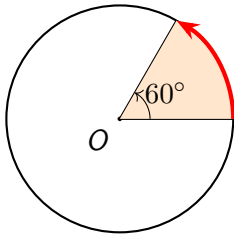


7. If the ^{نصف قطر} radius is 6 cm, what is the whole ^{محيط} circumference? (Use $\pi \approx 3.14$)

8. For the ^{قطاع} sector shown, what ^{كسر} fraction of the ^{محيط} circumference is the ^{قوس} arc length?

Calculate the ^{قوس} arc length if the whole ^{محيط} circle has a circumference of 24cm.

Starter (3 of 3)



7. If the ^{نصف قطر} radius is 6 cm, what is the whole ^{محيط} circumference? (Use $\pi \approx 3.14$) **37.68 cm**

8. For the ^{قطاع} sector shown, what ^{كسر} fraction of the ^{محيط} circumference is the ^{قوس} arc length?

Calculate the ^{قوس} arc length if the whole ^{محيط} circle has a circumference of 24cm. **$\frac{1}{6}$; 4**

cm

Starter (1 of 3)

1. 12×3

2. 4×3.14

3. $6.28 \div 2$

4. $9.42 \div 3$

Starter (1 of 3)

1. $12 \times 3 = 36$

2. $4 \times 3.14 = 12.56$

3. $6.28 \div 2 = 3.14$

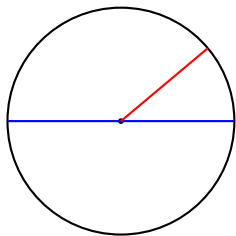
4. $9.42 \div 3 = 3.14$

Starter (2 of 3)

مقرب کرنا

اعشاریہ مقام

5. Round 3.14159265 to 3 decimal places.



6. Double 3.14

7. halve 12.56

8. Copy and label on the diagram: centre,

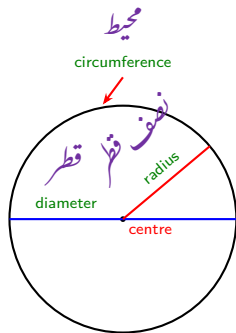
نصف قطر

قطر

محیط

radius , diameter, circumference.

Starter (2 of 3)



- اعشاریہ مقام
مقرب کرنا
5. Round 3.14159265 to 3 decimal places.

3.142

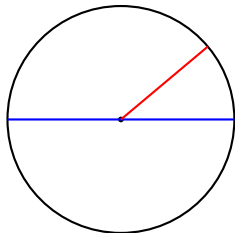
6. Double 3.14 = 6.28

7. halve 12.56 = 6.28

8. Copy and label on the diagram: centre,

محیط قطر نصف قطر
radius , diameter, circumference.

Starter (3 of 3)



- وتر
9. Draw a **chord** on the diagram shorter than the
نصف قطر
radius

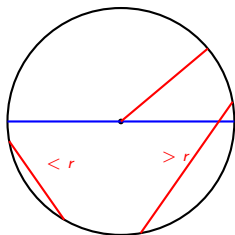
- وتر
10. Draw a **chord** on the diagram longer than the
نصف قطر
radius

- قطر
11. If the **diameter** is 8 cm, what is:

▶ the **radius** ?
نصف قطر

▶ the **circumference**? ($\pi \approx 3.14$)
محيط

Starter (3 of 3)



- وتر
9. Draw a **chord** on the diagram shorter than the
نصف قطر
radius

- وتر
10. Draw a **chord** on the diagram longer than the
نصف قطر
radius

- قطر
11. If the **diameter** is 8 cm, what is:

▶ the **radius** ? 4 cm

▶ the **circumference**? ($\pi \approx 3.14$) 25.12 cm