

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 ?

5. Zaokrąglij 3.14159 to 2 miejsca dziesiętne
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

Zaokrąglij miejsca dziesiętne

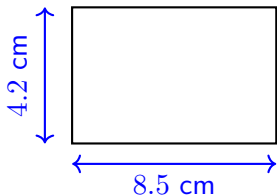
5. Round 3.14159 to 2 decimal places . 3.14

6. A pencil is 12.8 cm long. How many millimetres is this? 128 mm

Starter (3 of 3)

obwód

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



obwód

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

obwód

równoboczny

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

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

obwód

foremny sześciokąt

then the **perimeter** of a **regular** **hexagon**

with the same side length.

Starter (3 of 3)

obwód

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

25.4 cm

obwód

6. The **perimeter** of a square is 26 cm. What is

the length of one side? 6.5 cm

obwód

równoboczny

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

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

obwód

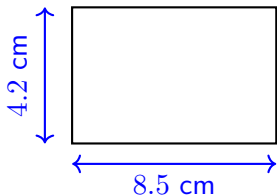
foremny sześciokąt

then the **perimeter** of a **regular** **hexagon**

with the same side length. 4.3 cm;

sześciokąt

hexagon : 25.8 cm



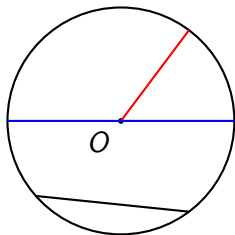
Starter (1 of 3)

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)



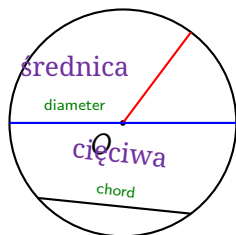
5. How many centimetres in 1.2 metres?

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

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

How is it different from a cięciwa chord?

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 **średnica** **diameter**?
cięciwa

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

średnica

diameter **passes through the centre.**

Starter (3 of 3)

6. If the **promień** **radius** of a circle is 7 cm, what is its **średnica** **diameter**?
7. The **średnica** **diameter** of a circle is 18 mm. Find its **promień** **radius** . _____
8. A **cięciwa** **chord** of length 8 cm is drawn inside a circle of **promień** **radius** 5 cm. Is the **cięciwa** **chord** a **średnica** **diameter**? Why, or why not?.

Starter (3 of 3)

6. If the **promień** **radius** of a circle is 7 cm, what is its **średnica** **diameter**? **14 cm**
7. The **średnica** **diameter** of a circle is 18 mm. Find its **promień** **radius**. **9 mm**
8. A **cięciwa** **chord** of length 8 cm is drawn inside a circle of **promień** **radius** 5 cm. Is the **cięciwa** **chord** a **średnica** **diameter**? Why, or why not?. **No; a diameter would be 10 cm.**

Starter (1 of 3)

1. 3.2×5

2. 1.8×4

3. $45 \div 10$

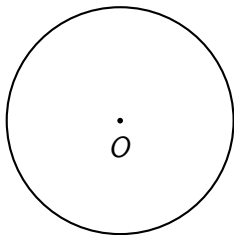
Starter (1 of 3)

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:

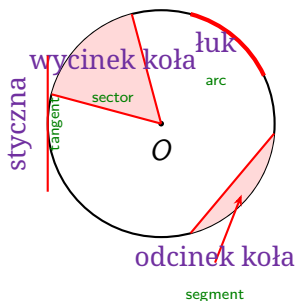
► A
wycinek koła
sector

► An łuk
arc

► A styczna
tangent

► A
odcinek koła
segment

Starter (2 of 3)



4. $90 \div 100 = 0.9$

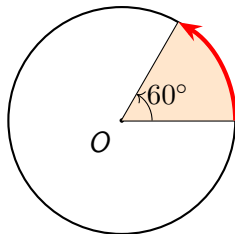
5. What is $\frac{1}{4}$ of 360° ? 90°

6. Copy the diagram, and draw with labels:

- ▶ A
wycinek koła
sector
łuk
- ▶ An arc

- ▶ A styczna
tangent
- ▶ A
odcinek koła
segment

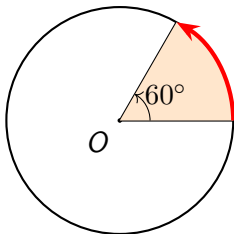
Starter (3 of 3)



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

- wycinek koła
8. For the sector shown, what ułamek obwód łuk fraction of the circumference is the arc length? Calculate the arc length if the obwód whole circle has a circumference of 24cm.

Starter (3 of 3)



promień

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

wycinek koła

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

$$\frac{1}{6}; 4 \text{ cm}$$

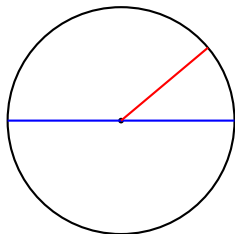
Starter (1 of 3)

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)



Zaokrągljij

5. Round 3.14159265 to 3

miejsca dziesiętne

decimal places .

6. Double 3.14

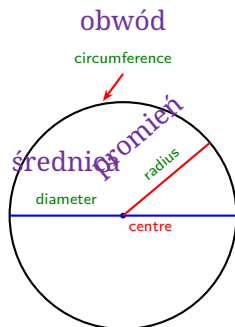
7. halve 12.56

8. Copy and label on the diagram: centre,

promień średnica obwód

radius , diameter , circumference.

Starter (2 of 3)



Zaokrąglij

5. Round 3.14159265 to 3
miejsca dziesiętne

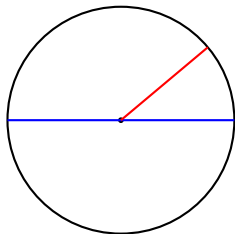
decimal places . 3.142

6. Double 3.14 = 6.28

7. halve 12.56 = 6.28

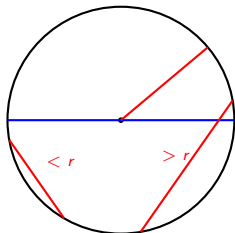
8. Copy and label on the diagram: centre,
promień **średnica** **obwód**
radius , diameter , circumference.

Starter (3 of 3)



9. Draw a **cięciwa** **chord** on the diagram shorter than the **promień** **radius**
10. Draw a **cięciwa** **chord** on the diagram longer than the **promień** **radius**
11. If the **średnica** **diameter** is 8 cm, what is:
- ▶ the **promień** **radius** ?
 - ▶ the **obwód** **circumference**? ($\pi \approx 3.14$)

Starter (3 of 3)



9. Draw a **cięciwa** **chord** on the diagram shorter than the **promień** **radius**

10. Draw a **cięciwa** **chord** on the diagram longer than the **promień** **radius**

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

- promień**
▶ the **radius** ? **4 cm**
- obwód**
▶ the **circumference**? ($\pi \approx 3.14$) **25.12 cm**