1 The diagram shows a sector, centre $O$.
The radius of the circle is 8 cm .
The angle of the sector is $150^{\circ}$.
Calculate the area of the sector.
Give your answer correct to 3 significant figures.

(2 marks)
2 AOB is a sector of a circle, centre $O$ and radius 18 cm .
The angle of the sector is $125^{\circ}$.
Calculate the length of the arc $A B$. Give your answer in terms of $\pi$.

(2 marks)

3 The diagram shows a sector, centre $O$.
The radius of the circle is 15.2 cm .
The angle of the sector is $165^{\circ}$.
Calculate the area of the sector. Give your answer correct to 3 significant figures.

(3 marks)
Sector Area and Arc Length 3 significant figures.

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(2 marks)
5 The diagram shows a sector, centre $O$. The radius of the circle is 11 m . The angle of the sector is $200^{\circ}$.


Calculate the area of the sector.
Give your answer correct to 3 significant figures.
(2 marks)
$6 \quad \mathrm{AOB}$ is a sector of a circle, centre $O$ and radius 5.2 cm .
The angle of the sector is $80^{\circ}$.
Find the perimeter of the sector. Give your answer correct to

$7 \quad B A C$ is a sector of a circle, centre $A$. $A C$ is the diameter of a semi circle. $A C$ is 10 cm .

Find the area of the shaded region. Give your answer in terms of $\pi$.
(4 marks)
8 The diagram shows a rectangle, $A B C D$, and a semi circle. $B C$ is the diameter of a semi circle.


Calculate the percentage of the area of the rectangle that is shaded. Give your answer correct to 1 decimal place.

9 AOB is a sector of a circle, centre $O$ and radius 12 cm . The length of arc $A B$ is 15 cm .

Find the area of the sector.

(4 marks)

10 AOB is a sector of a circle, centre $O$ and radius 9 cm . The length of $\operatorname{arc} A B$ is $6 \pi \mathrm{~cm}$.

Find the area of the sector. Give your answer in terms of $\pi$.

(4 marks)

