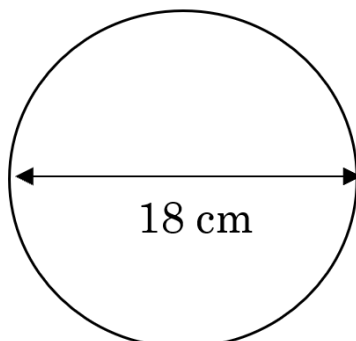




Circles Exam Practice

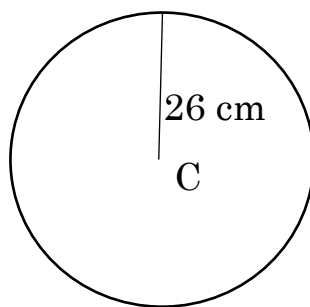
Q1. Work out the area of the shape below correct to 1 decimal place, stating the correct units.



Answer: _____
(2 marks)



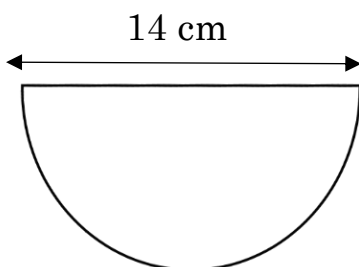
Q2. Work out the area of the circle with centre C correct to 1 decimal place, stating the correct units.



Answer: _____
(2 marks)



Q3. a) Work out the area of the semi-circle below correct to 1 decimal place, stating the correct units.



Answer: _____
(2 marks)

b) Work out the perimeter of the shape.

Answer: _____
(2 marks)

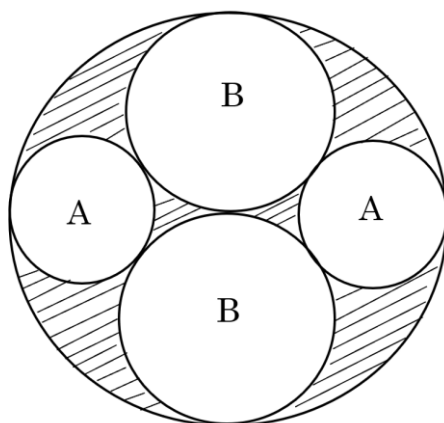


Q4. Jo orders two pizzas which are in the shape of a circle: a mushroom pizza, which is 8 inches in diameter, and a four cheese pizza, which is 12 inches in diameter. If she eats half of the mushroom pizza and $\frac{3}{4}$ of the four-cheese pizza, work out what percentage of the pizzas she has left, giving your answer to the nearest whole number.

Answer: _____
(4 marks)



Q5. The diagram below shows a circle containing 4 touching circles.



The circles marked A have radius 10 cm, whilst the radius of the circles marked B have radius 15 cm.

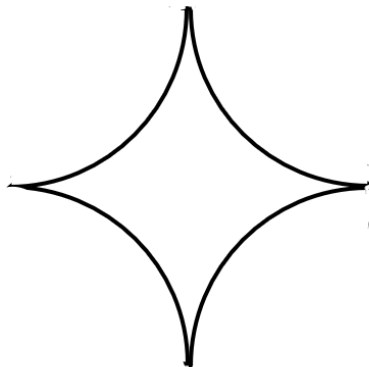
Find the percentage of the shape which is shaded, giving your answer to 1 decimal place.

Answer: _____
(5 marks)



Q6. The shape below has been formed from 4 quarter-circles. Each full circle has a radius of 20 cm.

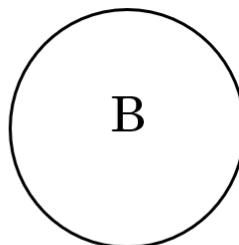
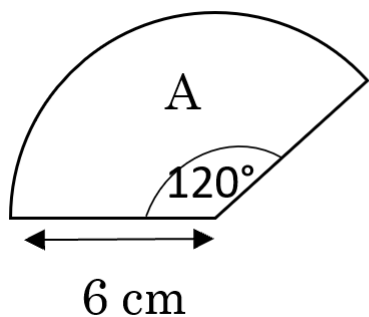
Find the circumference of the shape, giving your answer in terms of π .



Answer: _____
(3 marks)



Q7. Shape A is a sector of a circle. The area of shape A is 3 times larger than shape B. Find the radius of shape B.



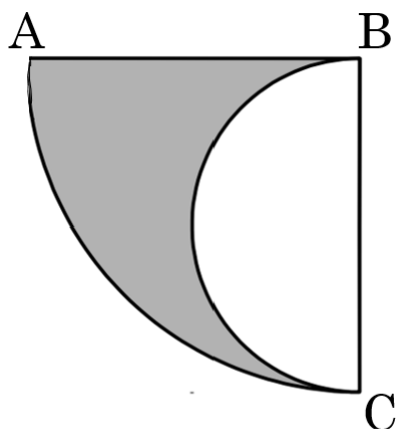
Answer: _____

(4 marks)



Q8. In this shape, angle ABC is a right-angle. The radius of the white semi-circle is 16 cm.

Find the circumference of the shaded region, giving your answer in terms of π .



Answer: _____

(4 marks)