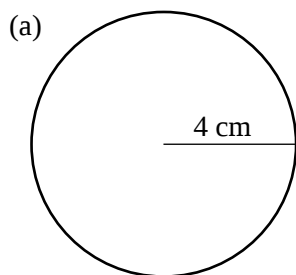
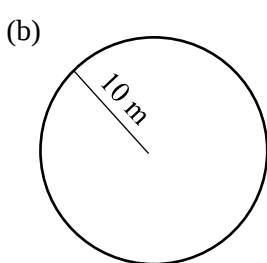


1. Work out the **area** of the following circles.

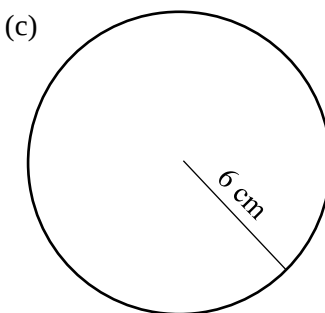
Give each answer correct to 1 decimal place.



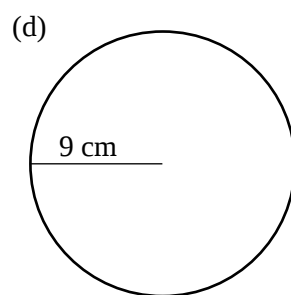
Area =



Area =



Area =

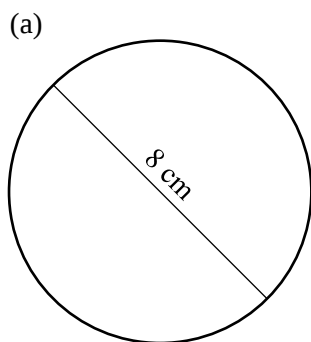


Area =

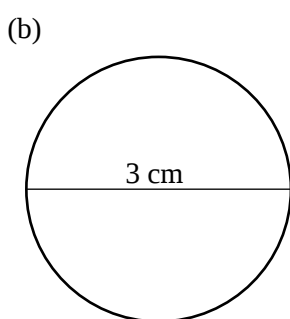
(8 marks)

2. Work out the **circumference** of the following circles.

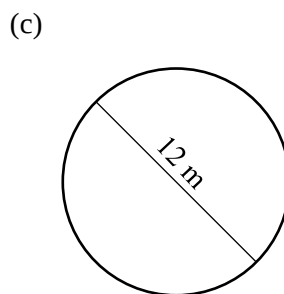
Give each answer correct to 1 decimal place.



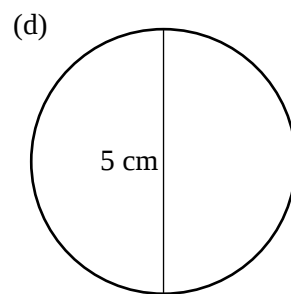
Circumference =



Circumference =



Circumference =

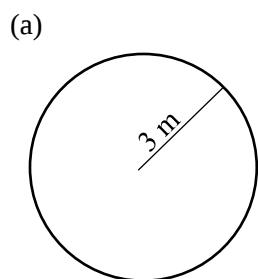


Circumference =

(4 marks)

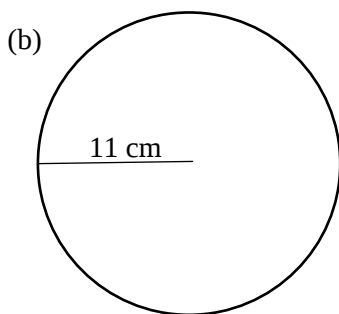
3. Work out the **area** and the **circumference** of the following circles.

Give each answer correct to 1 decimal place.



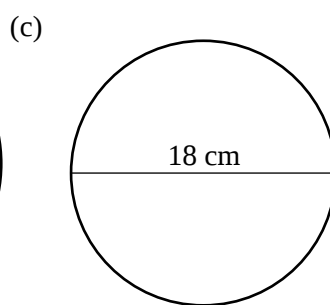
Area =

Circumference =



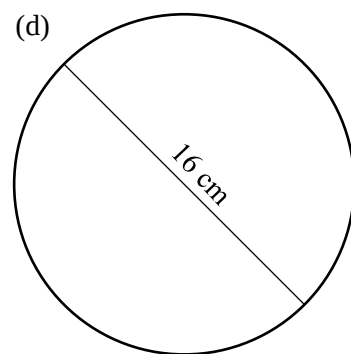
Area =

Circumference =



Area =

Circumference =

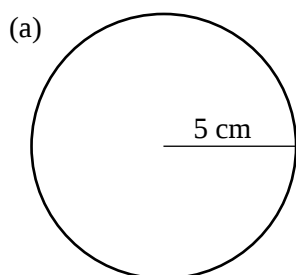


Area =

Circumference =

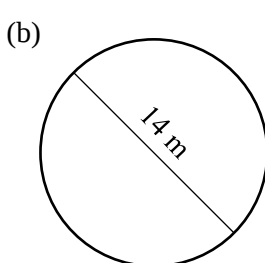
(12 marks)

4. Work out the **area** and the **circumference** of the following circles.
Give each answer correct to 1 decimal place.



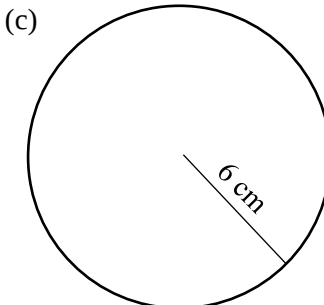
Area =

Circumference =



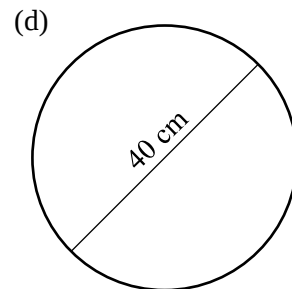
Area =

Circumference =



Area =

Circumference =

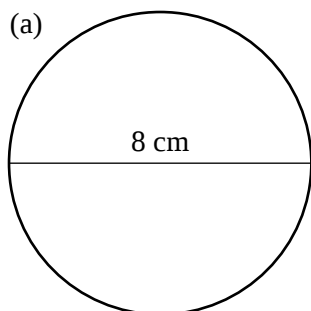


Area =

Circumference =

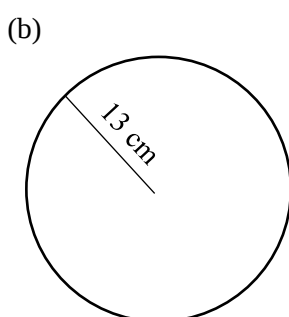
(12 marks)

5. Work out the **area** and the **circumference** of the following circles.
Give each answer correct to 1 decimal place.



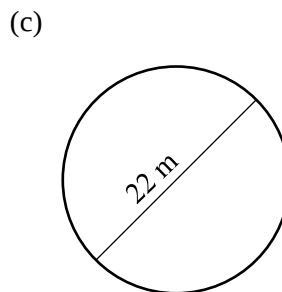
Area =

Circumference =



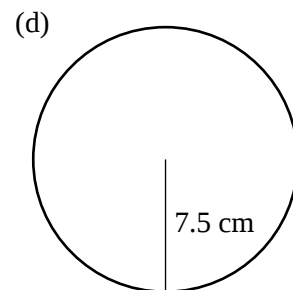
Area =

Circumference =



Area =

Circumference =

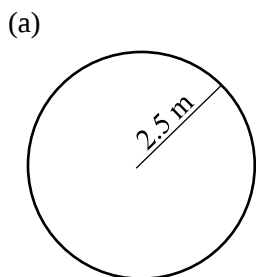


Area =

Circumference =

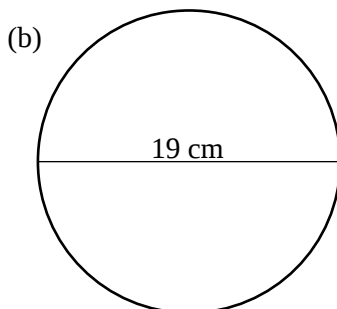
(12 marks)

6. Work out the **area** and the **circumference** of the following circles.
Give each answer correct to 1 decimal place.



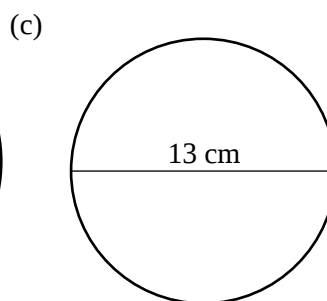
Area =

Circumference =



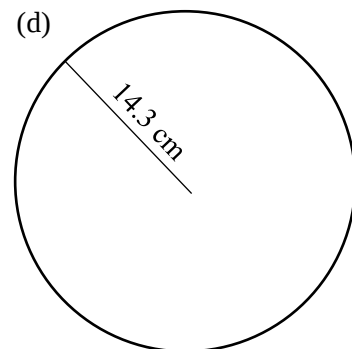
Area =

Circumference =



Area =

Circumference =

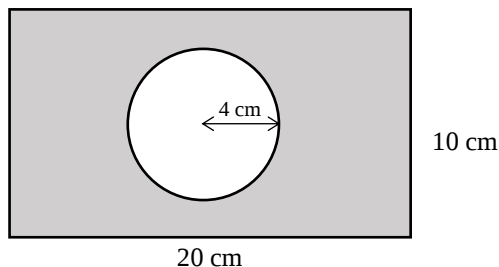


Area =

Circumference =

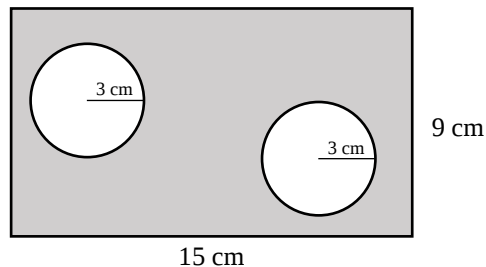
(12 marks)

7. Work out the **area** of the shaded region.
Give your answer correct to 1 decimal place.



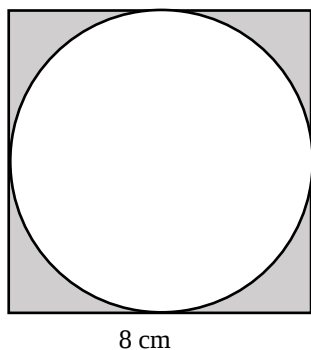
.....
(2 marks)

8. Work out the **area** of the shaded region.
Give your answer correct to 1 decimal place.



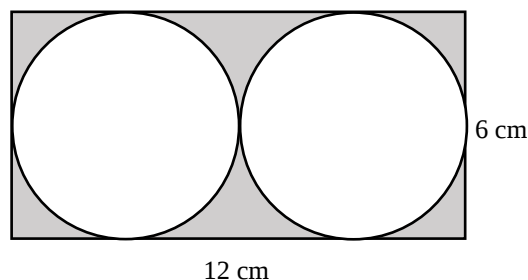
.....
(3 marks)

9. Work out the **area** of the shaded region.
Give your answer correct to 1 decimal place.



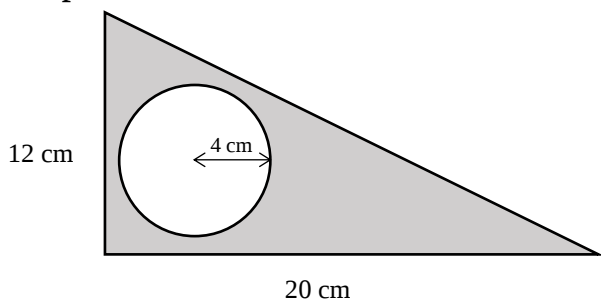
.....
(3 marks)

10. Work out the **area** of the shaded region.
Give your answer correct to 1 decimal place.



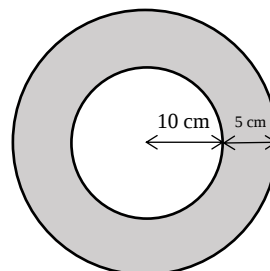
.....
(3 marks)

11. Work out the **area** of the shaded region.
Give your answer correct to 1 decimal place.



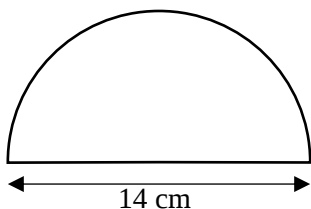
.....
(3 marks)

12. Work out the **area** of the shaded region.
Give your answer correct to 1 decimal place.



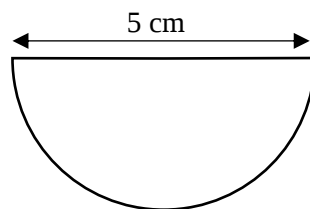
.....
(3 marks)

13. Work out the **area** of the semi-circle.
Give your answer correct to 1 decimal place.



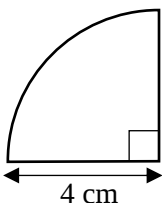
.....
(2 marks)

14. Work out the **area** of the semi-circle.
Give your answer correct to 1 decimal place.



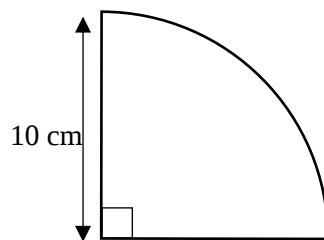
.....
(2 marks)

15. Work out the **area** of the quarter-circle.
Give your answer correct to 1 decimal place.



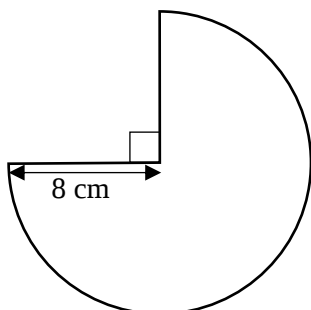
.....
(2 marks)

16. Work out the **area** of the semi-circle.
Give your answer correct to 1 decimal place.



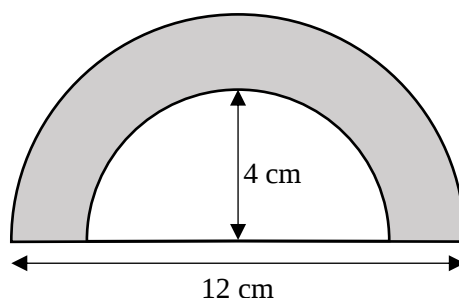
.....
(2 marks)

17. Work out the **area** of the three quarter-circle.
Give your answer correct to 1 decimal place.



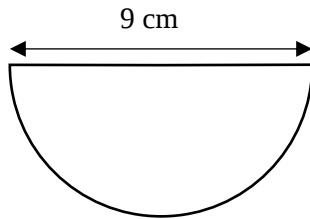
.....
(3 marks)

18. Work out the **area** of the shaded region.
Give your answer correct to 1 decimal place.



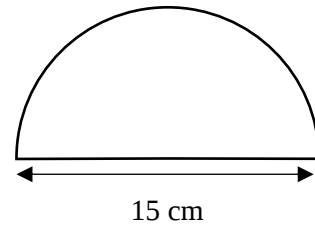
.....
(3 marks)

19. Work out the **perimeter** of the semi-circle.
Give your answer correct to 1 decimal place.



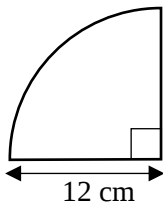
.....
(2 marks)

20. Work out the **area** of the semi-circle.
Give your answer correct to 1 decimal place.



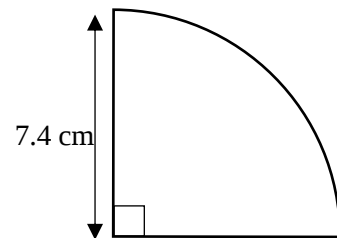
.....
(2 marks)

21. Work out the **perimeter** of the quarter-circle.
Give your answer correct to 1 decimal place.



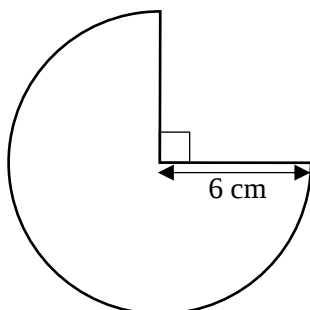
.....
(2 marks)

22. Work out the **perimeter** of the semi-circle.
Give your answer correct to 1 decimal place.



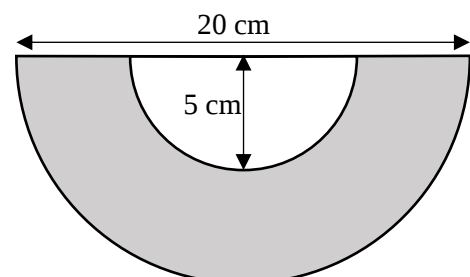
.....
(2 marks)

24. Work out the **area** of the three quarter-circle.
Give your answer correct to 1 decimal place.



.....
(3 marks)

24. Work out the **perimeter** of the shaded region.
Give your answer correct to 1 decimal place.



.....
(3 marks)