



Area of a Triangle (Trigonometry)



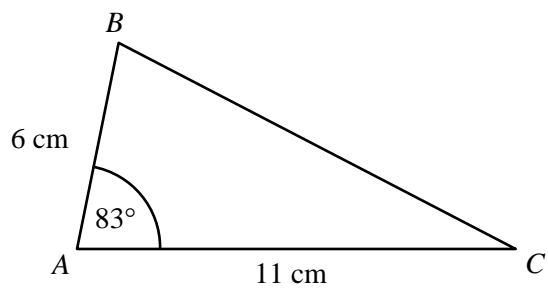
SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

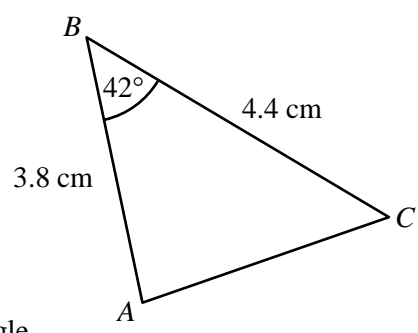
1 Here is triangle ABC .



Work out the area of the triangle.
Give your answer to 1 decimal place.

.....cm²
(Total for Question 1 is 2 marks)

2 Here is triangle ABC .

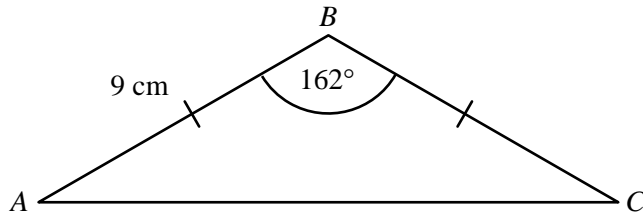


Work out the area of the triangle.
Give your answer to 1 decimal place.

.....cm²
(Total for Question 2 is 2 marks)



3 Here is triangle ABC .

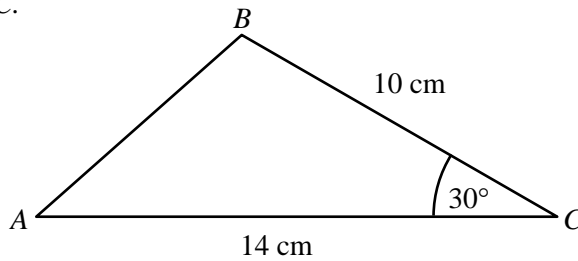


Work out the area of the triangle.
Give your answer to 1 decimal place.

.....cm²

(Total for Question 3 is 2 marks)

4 Here is triangle ABC .



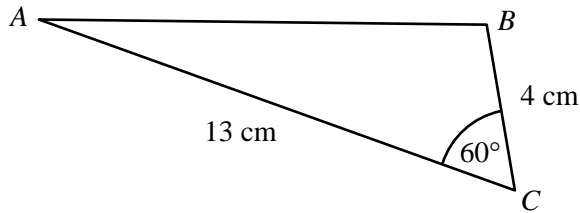
Work out the area of the triangle.
Give your answer to 1 decimal place.

.....cm²

(Total for Question 4 is 3 marks)



5 Here is triangle ABC .

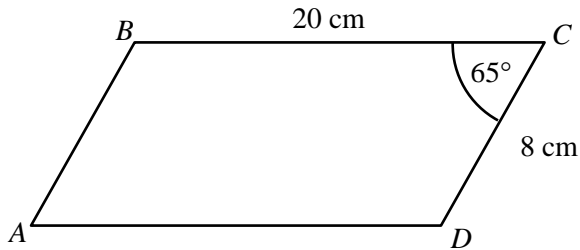


Work out the area of the triangle.
 Give your answer in the form $k\sqrt{3}$, where k is an integer.

.....cm²

(Total for Question 5 is 3 marks)

6 $ABCD$ is a parallelogram.



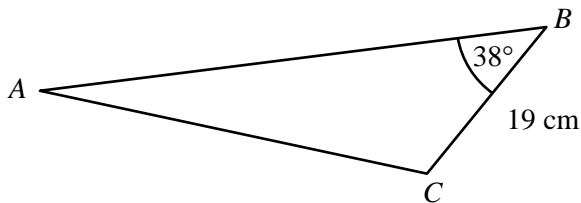
Work out the area of the parallelogram.
 Give your answer to 1 decimal place.

.....cm²

(Total for Question 6 is 3 marks)



7 Here is triangle ABC .

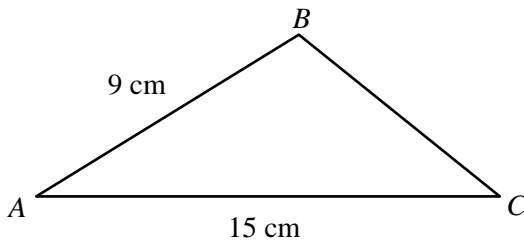


The area of the triangle is 350 cm^2
 Work out the length of AB .
 Give your answer to 1 decimal place.

..... cm

(Total for Question 7 is 3 marks)

8 Here is triangle ABC .



The area of the triangle is 23 cm^2
 Work out the size of the acute angle, BAC .
 Give your answer to 1 decimal place.

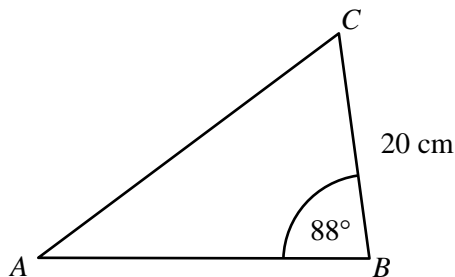
o

.....

(Total for Question 8 is 3 marks)



9 Here is triangle ABC .



$AB : BC = 8 : 5$

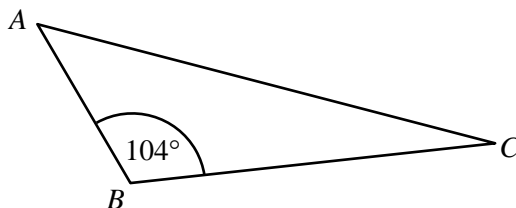
Work out the area of the triangle.

Give your answer to 1 decimal place.

.....cm²

(Total for Question 9 is 3 marks)

10 Here is triangle ABC .



$AB : BC = 1 : 3$

The area of triangle ABC is 123 cm^2

Work out the length of AB .

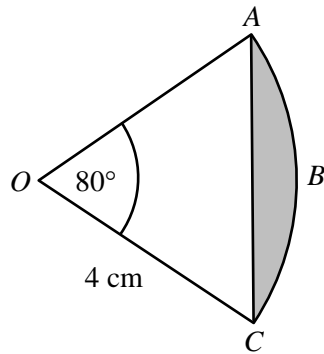
Give your answer to 1 decimal place.

.....cm

(Total for Question 10 is 3 marks)



11 $OABC$ is a sector with centre O .

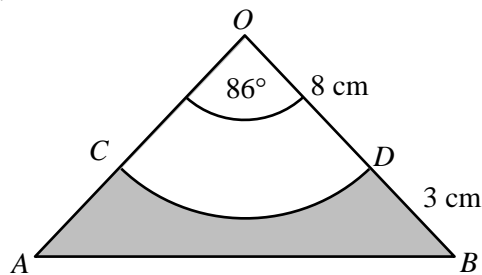


Calculate the area of the shaded region.
Give your answer to 1 decimal place.

.....cm²

(Total for Question 11 is 4 marks)

12 AOB is an isosceles triangle with $OA = OB$
 COD is a sector, centre O .



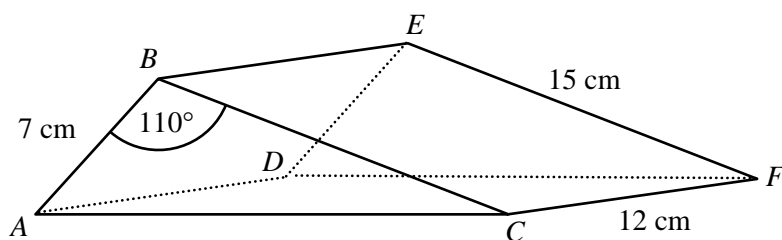
Work out the area of the shaded region.

.....cm²

(Total for Question 12 is 4 marks)



13 $ABCDEF$ is a triangular prism.

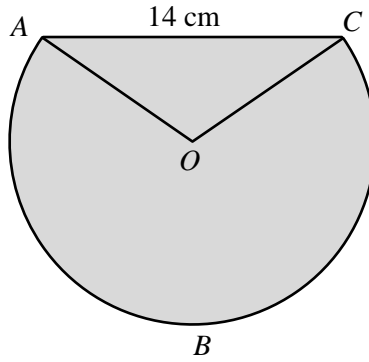


The prism has a mass of 0.5 kg.
 Calculate the density of the prism in g/cm^3
 Give your answer to 3 significant figures.

..... g/cm^3
 (Total for Question 13 is 5 marks)



14 $ABCO$ is a sector with centre O .



The perimeter of triangle AOC is 30 cm .
 Calculate the shaded area.
 Give your answer to 1 decimal place.

..... cm^2
(Total for Question 14 is 6 marks)

