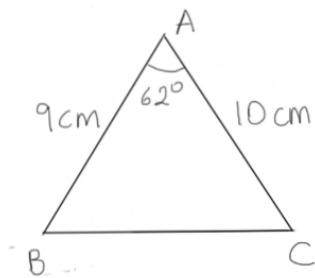


AREA OF A TRIANGLE

CANSU OLCE

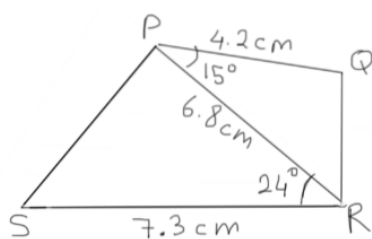
A STAR MATHS (www.astarmaths.com.au)

1.



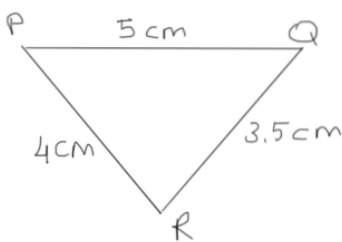
The diagram shows a triangle ABC. Calculate the length of BC.

2.



The diagram shows a quadrilateral PQRS. Calculate the area of PQRS.

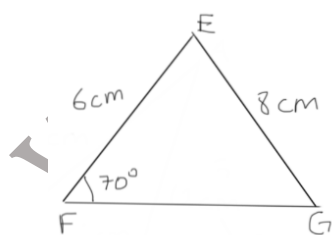
3.



The diagram shows a triangle PQR. Calculate

- $\angle QPR$
- the area of a triangle PQR.

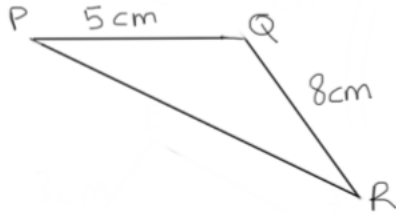
4.



The diagram shows a triangle EFG. Calculate the area of triangle EFG.

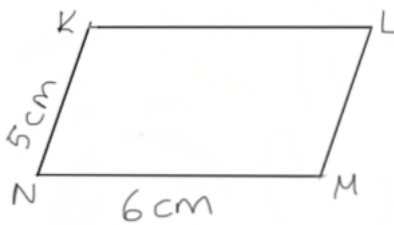
5. a) Given ABC is a triangle with $AB=14$ cm, $AC=10$ cm and its area is 68.47 cm^2 . Calculate $\angle BAC$.

b)



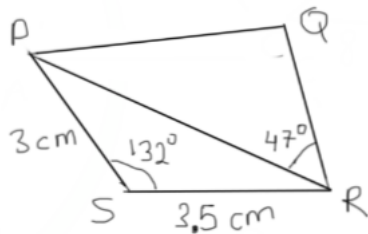
The diagram shows a triangle PQR with an area of 11.47 m^2 . Calculate $\angle PQR$.

6.



The diagram shows a parallelogram KLMN with an area of 13.91 cm^2 . Calculate $\angle LMN$.

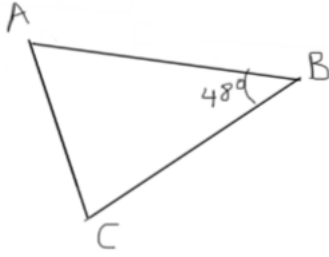
7.



The diagram shows a quadrilateral PQRS with an area of 10 cm^2 . Calculate

- the length of PR
- the length of QR

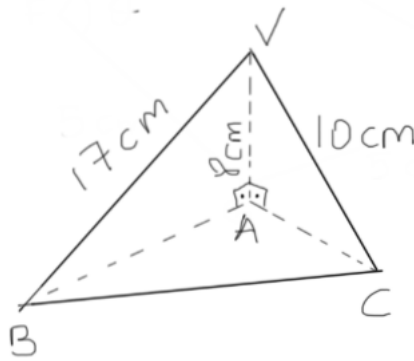
8.



The diagram shows a triangle ABC with an area of 14.86 cm^2 . Calculate, to the nearest integer.

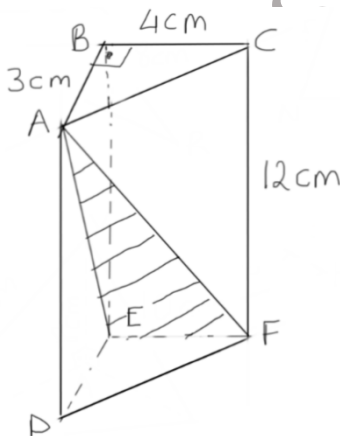
- the length of BC.
- the length of AC.

9.



The diagram shows a pyramid with a triangular base ABC. The vertex V is vertically above A. Given that $\angle BAC = 98^\circ$, calculate the area of the base ABC.

10.



The diagram shows a right prism with the right-angled triangle ABC as its uniform cross section. Calculate

- $\angle EAF$
- the area of triangle AEF

ANSWER KEY

1. 39.73cm^2
2. 13.79 cm^2
3. a) $44^\circ 3'$
b) 6.953cm^2
4. 21.78cm^2
5. a) 78° or 102°
b) 145°
6. $152^\circ 23'$
7. a) 5.942 cm b) 2.806 cm
8. a) 5 cm b) 6 cm
9. 44.56 cm^2
10. a) $17^\circ 56'$ b) 24.76cm^2

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