WORKSHEET

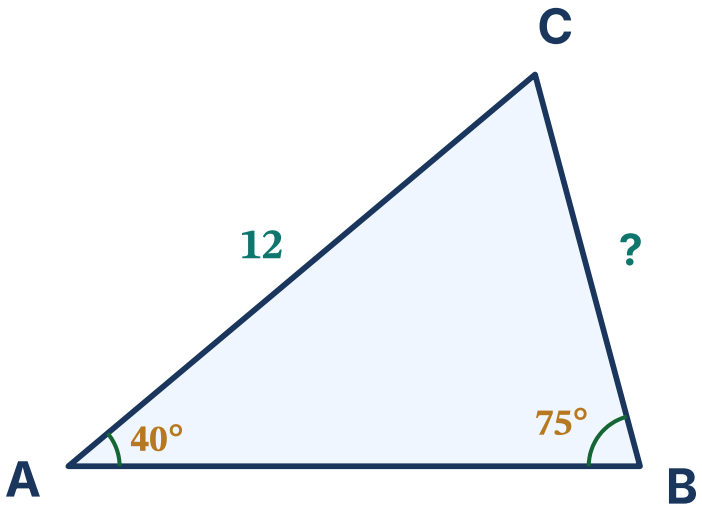
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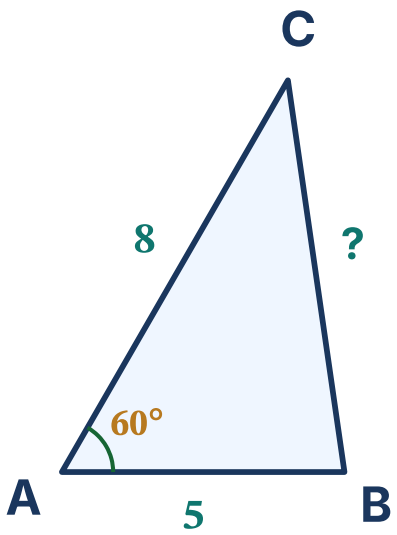
MARK ____ / 27

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

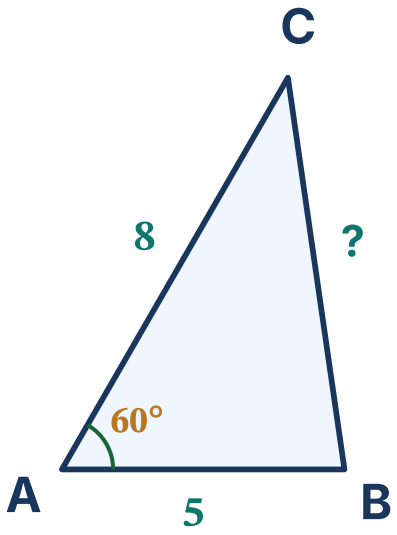
1 In △ABC, $\hat{A} = 40°$, $\hat{B} = 75°$ and AC = 12 units. Calculate the length of BC. (3)



2 In $\triangle ABC$, $AC = 8$ units, $AB = 5$ units and $\hat{A} = 60°$. Calculate the length of BC. **(3)**



3 Calculate the area of $\triangle ABC$ if $AC = 8$ units, $AB = 5$ units and $\hat{A} = 60°$. **(2)**



4 Which rule would you use given three sides and no angles? **(1)**

5 Which rule would you use given two angles and one side? **(1)**

6 Write down the area rule for △PQR using sides p and q. **(1)**

7 In △ABC, $a = 7$, $b = 8$, $c = 5$. Calculate Â to one decimal. **(3)**

8 Why can SOHCAHTOA not be used in △ABC above? **(2)**

9 Prove that the area of △ABC = $\frac{1}{2}ab$ sin C. **(4)**

10 Prove the sine rule for $\triangle ABC$. **(5)**

11 What single construction begins the proof of all three rules? **(2)**

TOTAL: 27 marks

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