WORKSHEET

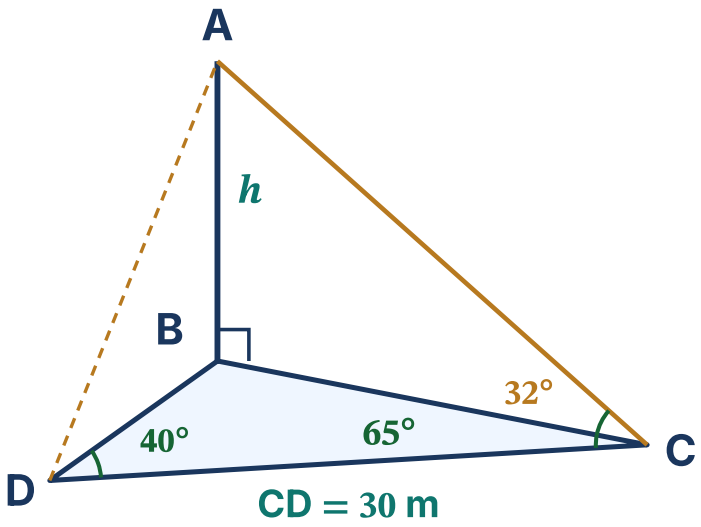
Name: ..... Class: .....

Date: .....

MARK ____ / 16

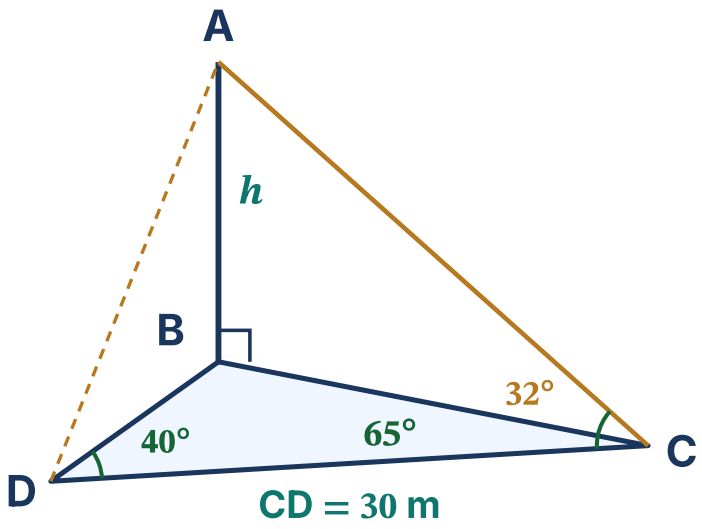
Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 In the diagram below, calculate the size of $D\hat{B}C$. (2)



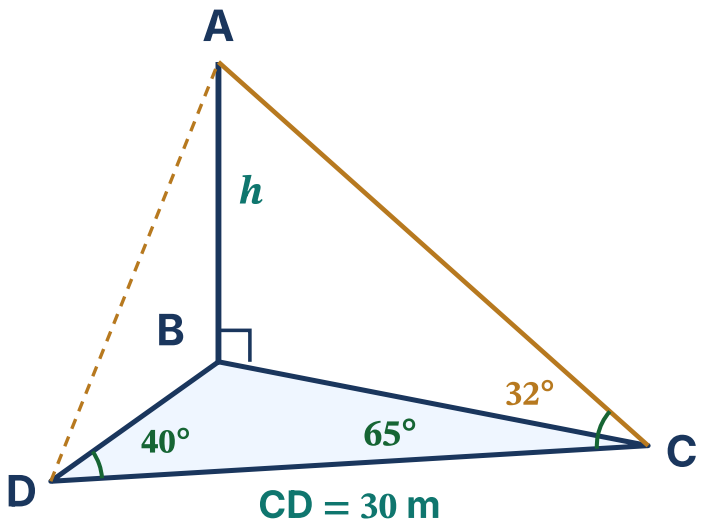
AB is vertical; B, C and D lie in the same horizontal plane

2 In the diagram below, calculate the length of BC. (3)



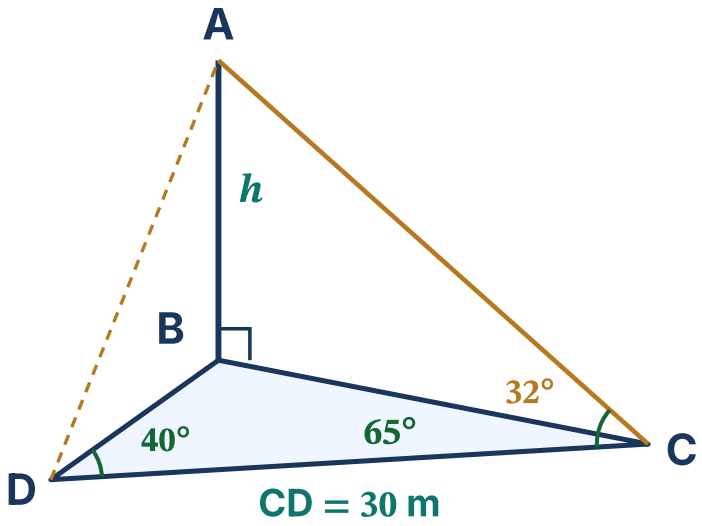
AB is vertical; B, C and D lie in the same horizontal plane

3 In the diagram below, calculate the height of the pole AB. (3)



AB is vertical; B, C and D lie in the same horizontal plane

4 Why is $A\hat{B}C = 90°$ in the diagram below? (1)

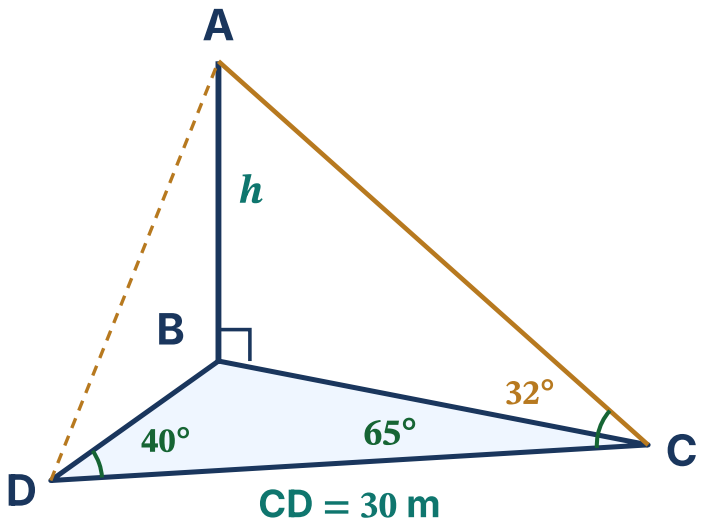


AB is vertical; B, C and D lie in the same horizontal plane

5 Which triangle should you solve first in a 3-D problem? (1)

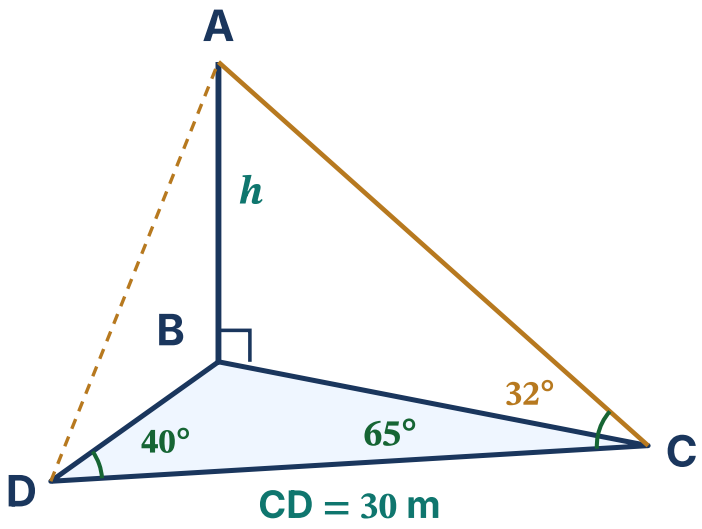
6 An angle of elevation is measured from which direction? (1)

7 Calculate the area of $\triangle BCD$ given BC $= 19{,}96$ m, CD $= 30$ m and $B\hat{C}D = 65°$. (3)



AB is vertical; B, C and D lie in the same horizontal plane

8 Can the sine rule be applied to a three-dimensional figure as a whole? **(2)**



AB is vertical; B, C and D lie in the same horizontal plane

TOTAL: 16 marks

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