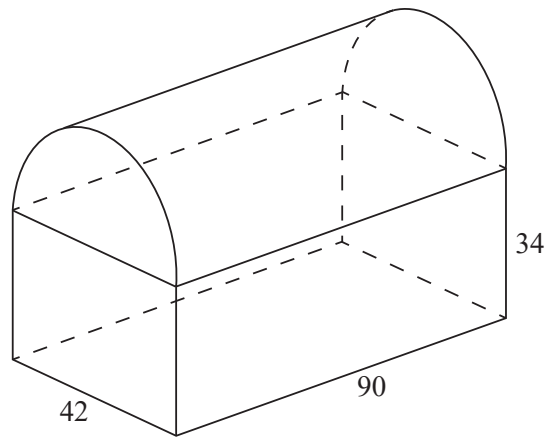


3. [Maximum mark: 7]

A storage container consists of a box of length 90 cm, width 42 cm and height 34 cm, and a lid in the shape of a half-cylinder, as shown in the diagram. The lid fits the top of the box exactly. The total exterior surface of the storage container is to be painted.

Find the area to be painted.

diagram not to scale



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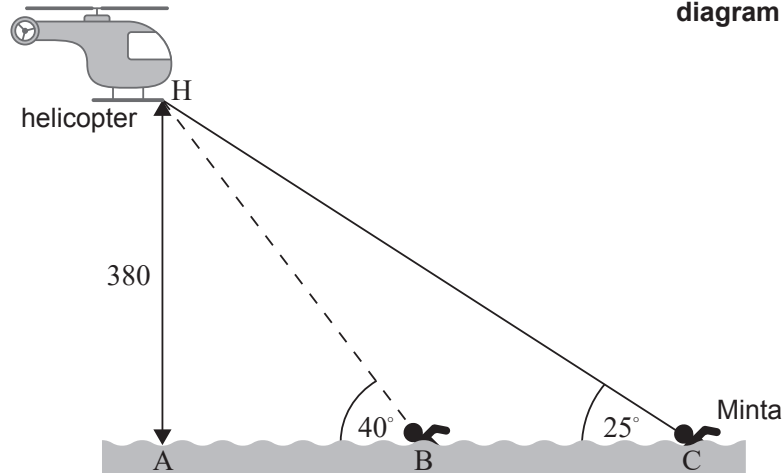
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- diagram not to scale



- Write down the size of the angle of depression from H to C. [1]
- Find the distance from A to C. [2]
- Find the distance from B to C. [3]
- Find Minta's speed, in metres per hour. [1]

[illegible]