

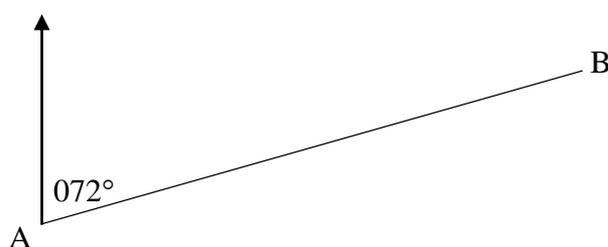
National 4 Lifeskills Mathematics
Practice Unit Assessment
Geometry and Measures 2

- 1) The weight of a component needs to be (61 ± 2) grams. Write down both the minimum and maximum allowable weights of a component.
- 2) The length of a component needs to be (259 ± 3) millimetres. Write down both the minimum and maximum allowable lengths of a component.
- 3) A match box is supposed to contain 100 ± 4 matches. The number of matches of 16 boxes are counted and shown below.

99, 100, 98, 101, 101, 99, 100, 104, 95, 99, 97, 103, 104, 95, 97, 100

How many of the 16 boxes have the correct number of matches?

- 4) A plane travels 500km on a bearing of 070° . Using a scale of 1cm represents 100km, make a scale drawing of the route.
- 5) A hiker walks 16 miles on a bearing of 125° . Using a scale of 1 cm represents 2 miles, make a scale drawing of the route.
- 6) Below is a scale drawing of the route of a motor car. If 1 cm represents 7km how far is it, in kilometres from point A to point B?



- 7) A helicopter flies 35km on a bearing of 025° from Mortown, and then flies 55km on a bearing of 120° arriving at Nothill.
 - a) Make a scale drawing of the route using a scale of 1cm represents 5km.
 - b) How far, in kilometres, is the direct route from Mortown to Nothill?