

## Hundred Starter 10<sup>th</sup> February

### Question 28

A ship sailed 15 km from port *A* on a bearing of  $200^\circ$  to reach port *B*.  
On leaving port *B*, the ship sailed 30 km on a bearing of  $110^\circ$  to reach port *C*.

- (a) Calculate the direct distance, in km to one decimal place, between port *A* and port *C*.
- (b) Calculate the bearing, in degrees to the nearest degree, of port *A* from port *C*.

### Question 29

Chi received \$348 in pay after tax was deducted.

Tax was deducted at a rate of 40%

- (a) Calculate Chi's pay, in \$, before the tax was deducted.

The tax should have been deducted at a rate of 25% and **not** 40%

- (b) Calculate by how much, in \$, Chi was underpaid.

### Question 30

Bananas, sugar cane and fish are the exports of a small country.

In 2017 the total value of its exports was \$3 690 000

A pie chart was drawn for the values of the different exports in 2017 and the angle in the pie chart for bananas was  $48.6^\circ$

Calculate the value of the bananas exported in 2017

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