

- 1 A school has a sponsored swim in summer and a sponsored walk in winter. In 2010, the school raised a total of \$1380. The ratio of the money raised in summer: winter = 62:53.

(a) (i) Show clearly that \$744 was raised by the swim in **summer**.

Answer (a)(i)

$$\frac{62}{62+53} \times \$1380 = \frac{62}{115} \times \$1380$$

$$= \$744$$

[1]

(ii) Alesha's swim raised \$54.10. Write this as a percentage of \$744.

$$\frac{\$54.10}{\$744} \times 100\% = 7.271505376\ldots\%$$

$$\approx 7.27\%$$

Answer(a)(ii) 7.27 % [1]

(iii) Bryan's swim raised \$31.50.

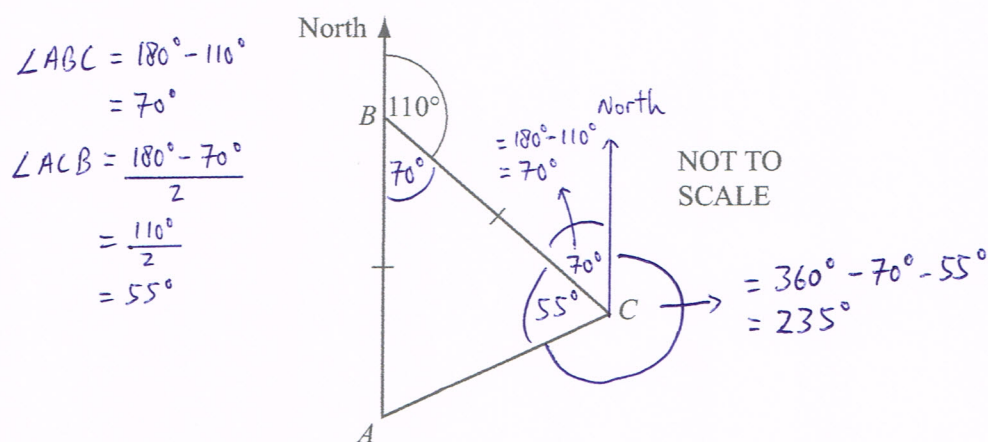
He received 75 cents for each length of the pool which he swam.
= \$0.75

Calculate the number of lengths Bryan swam.

$$\frac{\$31.50}{\$0.75} = 42$$

Answer(a)(iii) 42 [2]

(b) The route for the **sponsored walk in winter** is triangular.



- (i) Senior students start at A, walk North to B, then walk on a bearing 110° to C. They then return to A.
 $AB = BC$.

Calculate the bearing of A from C.

Answer(b)(i) 235° [3]