

- 1 (a) Last year a golf club charged \$1650 for a family membership.
This year the cost increased by 12%.

Calculate the cost of a family membership this year.

$$\frac{12}{100} \times 1650 = \$198$$

$$1650 + 198 = \$1848$$

Answer(a) \$ 1848 [2]

- (b) The golf club runs a competition.
The total prize money is shared in the ratio 1st prize : 2nd prize = 9 : 5.
The 1st prize is \$500 more than the 2nd prize.

- (i) Calculate the total prize money for the competition.

$$\frac{9+5}{9-5} \times 500$$

$$= \frac{14}{4} \times 500$$

$$= \$1750$$

Answer(b)(i) \$ 1750 [2]

- (ii) What percentage of the total prize money is given as the 1st prize?

$$\frac{9}{9+5} \times 100\%$$

$$= \frac{9}{14} \times 100\%$$

$$= 64\frac{2}{7}\%$$

Answer(b)(ii) 64 $\frac{2}{7}$ % [1]

- (c) For the members of the golf club the ratio men : children = 11 : 2.
The ratio women : children = 10 : 3.

- (i) Find the ratio men : women.

$$\begin{array}{lcl} \text{Men} & : \text{Children} & = 11 : 2 \quad | \times 3 \\ \text{Women} : \text{Children} & = & 10 : 3 \quad | \times 2 \end{array}$$

$$\text{Men} : \text{Women} : \text{Children} = 33 : 20 : 6$$

$$\text{Men} : \text{Women} = 33 : 20$$

Answer(c)(i) 33 : 20 [2]