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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.

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Last year \$ 1650 Increase in cost = 12%

Increase in cost = 12/.
.. New Cost = 1650 +
$$\frac{12}{100}$$
 (1650)
- 1848 Answer(a) \$

- (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.

|St Price Money:
$$\frac{9}{14}(x) = \frac{5}{14}(x) + 500 \Rightarrow 4x = 7000$$

$$\Rightarrow x = \frac{7000}{4} = 1750$$

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

$$\frac{\frac{9}{14}(x)}{x} \times 100$$

$$= \sqrt{\frac{9}{14}(1750)} \div 1750 \times 100 \quad Answer(b)(ii) \quad 64.3 \quad \% [1]$$

- (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.

$$\frac{1. M}{C}: \frac{C}{W} \Rightarrow \frac{33}{6}: \frac{20}{6} \Rightarrow 33: 20$$

(ii) The golf club has 24 members who are children.

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Find the total number of members.

$$\left(\frac{6}{6+20+33}\right) \times \varkappa = 24$$

$$=$$
) $\frac{6}{59}$ $\times = 24$

$$\Rightarrow \chi = \frac{24 \times 59}{6} = 236$$

Answer(c)(ii)

(d) The club shop sold a box of golf balls for \$20.40. The shop made a profit of 20% on the cost price.

Calculate the cost price of the golf balls.

$$P = 20$$

$$\frac{20 = \frac{20.40 - x}{x} \times 100}{2}$$

$$\frac{120\times}{100} = 20.40$$