



1 A tennis club has 560 members.

(a) The ratio men : women : children = 5 : 6 : 3. $\rightarrow$ total = 14

(i) Show that the club has 240 women members.

Answer(a)(i)

$$w = \frac{6}{14} \times 560 = 240$$

[2]

(ii) How many members are children?

$$C = \frac{1}{2} w$$

Answer(a)(ii) 120

[1]

(b) $\frac{5}{8}$ of the 240 women members play in a tournament.

How many women members do not play in the tournament?

$$\frac{3}{8} \times 240 = 90$$

Answer(b) 90

[2]

(c) The annual membership fee in 2013 is \$198 for each adult and \$75 for each child.

(i) Calculate the total amount the 560 members pay in 2013.

$$120 \times 75 + 440 \times 198$$

Answer(c)(i) \$ 96120

[2]

(ii) The adult fee of \$198 in 2013 is 5.6% more than the fee in 2012.

Calculate the adult fee in 2012.

$$x \cdot (100\% + 5.6\%) = 198$$
$$x = \frac{198}{1.056}$$

Answer(c)(ii) \$ 187.5

[2]

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