1 A tennis club has 560 members.

For Examiner's

- (a) The ratio men: women: children = 5:6:3.
 - (i) Show that the club has 240 women members.

Answer(a)(i)
$$\frac{6}{5+6+3} \times 560 = \frac{6}{14} \times 560$$
= 240

[2]

(ii) How many members are children?

$$\frac{3}{5+6+3} \times 560 = \frac{3}{14} \times 560$$
$$= 120$$

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?

$$\frac{5}{8} \times 240 = 150$$

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.

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.

$$x = \frac{100}{105.6} \cdot $198$$

$$= $187.50$$