1	At a theatre,	adult tickets	cost \$5	each and	d child	tickets	cost \$3	each.
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Examiner's TISP

(a) Find the total cost of 110 adult tickets and 85 child tickets.

adult: 110 x \$5 = \$550 children: 85 x \$ 3 = \$ 255 +

Answer(a) \$ 805 [2]

**(b)** The total cost of some tickets is \$750. There are 120 adult tickets.

\$150 = 50 child tickets

Work out the number of child tickets. 120 x \$5 = \$600

£750 - \$600 = \$150

Answer(b) 50 [2]

(c) The ratio of the number of adults to the number of children during one performance is

adults: children = 3:2.

(i) The total number of adults and children in the theatre is 150.

Find the number of adults in the theatre.

$$\frac{3}{3+2} \times 150 = \frac{3}{5} \times 150 = 90$$

*Answer(c)*(i) 90 [2]

For this performance, tind the rest.

Give your answer in its simplest form.

450; 180; 90 (ii) For this performance, find the ratio total cost of adult tickets: total cost of child tickets.

adult: 90 x\$5=\$450

child: 150-90=60

60 x \$ 3 =\$ 180

Answer(c)(ii) 5: 2

(d) The \$5 cost of an adult ticket is increased by 30%.

Calculate the new cost of an adult ticket.

$$\frac{30}{100} \times $5 = $1.50$$
  
\$5 + \$1.50 = \$6.50

Answer(d) \$ 6.50 [2]

(e) The cost of a child ticket is reduced from \$3 to \$2.70.

Calculate the percentage decrease in the cost of a child ticket.