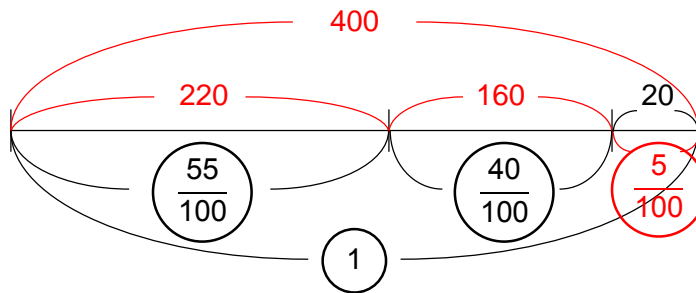


A Maths Question, PSLE 2015

55% of the ticket was sold at full price. 40% of the ticket was sold at half price. 20 tickets were given away. The total amount of money collected was \$7200. Find the full price of the ticket.

<< Corresponding Maths >>

With regards to the number of tickets, let ① be the total number of tickets.



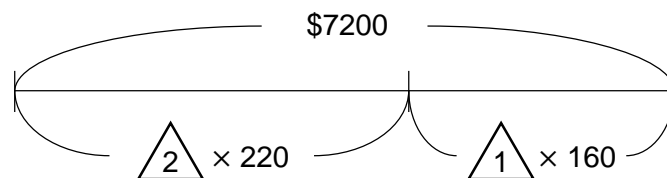
$$100\% - (55\% + 40\%) = 5\% \rightarrow 20 \text{ tickets}$$

$$20 \div \frac{5}{100} = 400 \rightarrow \textcircled{1}$$

$$400 \times \frac{55}{100} = 220 \rightarrow \text{the number of tickets sold at full price}$$

$$400 \times \frac{40}{100} = 160 \rightarrow \text{the number of tickets sold at half price}$$

With regards to the ticket sales, let \triangle_2 be the full price ticket.



$$2 \times 220 = 440$$

$$2 \times \frac{1}{2} = 1$$

$$1 \times 160 = 160$$

$$\$7200 \div (440 + 160) = \$12 \rightarrow \triangle_1, \text{ half price}$$

$$2 \times \$12 = \$24$$

Answer \$24