

For a first time on Monday, a museum sells 4 child & 8 adult tickets for \$128. For the second time, the museum sells 6 adult tickets for \$72. Find the prices of the two tickets.

~~x~~ x - \$ CHILD y - \$ ADULT

$$\begin{cases} 4x + 8y = 128 \\ 6y = 72 \end{cases}$$

$$8y = -4x + 128$$

$$\begin{aligned} y &= -.5x + 16 \\ y &= 12 \end{aligned}$$

(8, 12)

CHILDREN \$ 8

ADULT \$ 12