

**YOU & MATHS** **Let's go swimming!** Swimming pool ticket prices can vary based on age and on whether it is a weekday or the weekend. Below is a matrix that contains the cost of a ticket for an adult and for a child going on a weekday or on the weekend. The rows represent whether it is a weekday or the weekend, while the columns represent whether it is a child's ticket or an adult's ticket.

$$\begin{bmatrix} 5 & 7 \\ 8 & 12 \end{bmatrix}$$

For example, an adult ticket on the weekend costs €12. How much would it cost for a family of 2 adults and 2 children to pass a weekday at the pool?

$$\begin{array}{cc} & \begin{array}{cc} \text{child} & \text{adult} \end{array} \\ \begin{array}{c} \text{weekday} \\ \text{weekend} \end{array} & \begin{bmatrix} 5 & 7 \\ 8 & 12 \end{bmatrix} \end{array}$$

A child's ticket on a weekday costs € 5, an adult's ticket on a weekday costs € 7, so a family of 2 adults and 2 children would spend

$$5 \cdot 2 + 7 \cdot 2 = 24 \text{ (in euros).}$$