

Example 3

The odds that Tara will be late for school on any given day are 4:3. State the probability that Tara will NOT be late for school tomorrow.

$$P(\text{not late}) = \frac{\text{not late}}{\text{TOTAL}}$$

$$P(\text{not late}) = \frac{3}{7}$$

$$\begin{aligned} \text{late} &= 4 \\ \text{NOT late} &= 3 \\ \text{TOTAL} &= 7 \end{aligned}$$

Example 4

The probability that it will rain tomorrow is 12%.

- State the odds in favour of it raining tomorrow.
- State the odds against it raining tomorrow.

a) odd raining:

$$\begin{aligned} \text{Raining} &: \text{ NOT Raining} \\ 12 &: 88 \end{aligned}$$

$$\begin{aligned} \text{Raining} &= 12\% \\ \text{NOT Raining} &= 88\% \end{aligned}$$

b) ODD (Against Raining):

$$\begin{aligned} \text{NOT raining} &: \text{ Raining} \\ 88 &: 12 \end{aligned}$$