## PROBABILITY PROBLEM SOLVING - INDEPENDENT EVENTS

If $A$ and $B$ are independent events then:
$P(A$ and $B)=P(A) \times P(B)$


$$
P(A)=\frac{3}{5}
$$

$$
P(B)=\frac{4}{9}
$$


?

Calculate the probability of a fish being in regions $A$ and $B$ at the same time.


Calculate the probability of a fish being in the right-hand side of the tank and less than 2 metres from the surface.

P3.


Calculate the probability of a fish being in the bottom $\frac{2}{5}$ of the tank whilst being less than 3 m from the left hand side.

P4.


Calculate the probability of a fish being less than $2 m$ from the surface whilst on the left-hand side and less than $1 m$ from the front.

P5.


$$
P(A)=\frac{4}{5} \quad P(A \text { and } B)=\frac{4}{9}
$$



## CHALLENGE



