JustMaths
1 like to list my
Wendy goes to a fun fair.
She has one go at Hoopla.
She has one go on the Coconut shy. outcomes ate end of every tree.

The probability that she wins at Hoopla is 0.4
...y you'll see The probability that she wins on the Coconut shy is 0.3
a) Complete the probability tree diagram.

(2)
b) Work out the probability that Wendy wins at Hoopla and also wins on the Coconut shy.

$$
W_{1} W=0.4 \times 0.3=0.12
$$

Make to multiply deamals.

## 0

Matthew puts 3 red counters and 5 blue counters in a bag. He takes a counter at random from the bag.
He writes down the colour of the counter.
He puts the counter in the bag again.
He then takes at random a second counter from the bag.
a) Complete the probability tree diagram.

b) Work out the probability that Matthew takes two red counters.
$R R=\frac{3}{8} \times \frac{3}{8}=\frac{9}{64}$
its $0.06 \ldots$ not 0.6

JustMaths

Tom and Sam each take a driving test.
The probability that Tom will pass the driving test is 0.8
The probability that Sam will pass the driving test is 0.6
a) Complete the probability tree diagram.

b) Work out the probability that both Tom and Sam will pass the driving test.

$$
\begin{equation*}
P, P=0.8 \times 0.6=0.48 \tag{2}
\end{equation*}
$$

c) Work out the probability that only one of them will pass the driving test.

$$
\begin{align*}
& P_{1} F=\frac{0.32}{0.44}
\end{align*}
$$

## 0

 JustMathsEmma has 7 pens in a box.
5 of the pens are blue.
2 of the pens are red.
Emma takes at random a pen from the box and writes down its colour.
Emma puts the pen back in the box.
Then Emma takes at random a second pen from the box and writes down its colour.
a) Complete the probability tree diagram.

b) Work out the probability that Emma takes exactly one pen of each colour from the box.
it will be $B_{1} R$ OR
$R, B$
$\frac{10}{49}+\frac{10}{49}=\frac{20}{49}$

