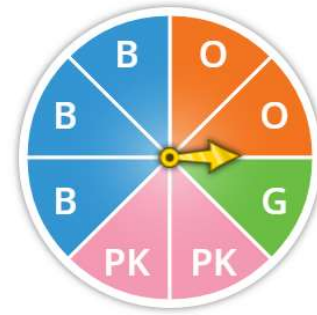


Routine Probability Practice #4

1. A spinner is marked as shown to the right with blue (B), orange (O), green (G), and pink (PK) sections.

If I spin it, what is the probability I get:

- a blue section?
- a green section?
- not an orange section?



2. The colour and pattern of marbles in a bag is shown:

	Striped	Plain	Total
Red	20	10	
White	15	25	
Blue	10	20	
Total			

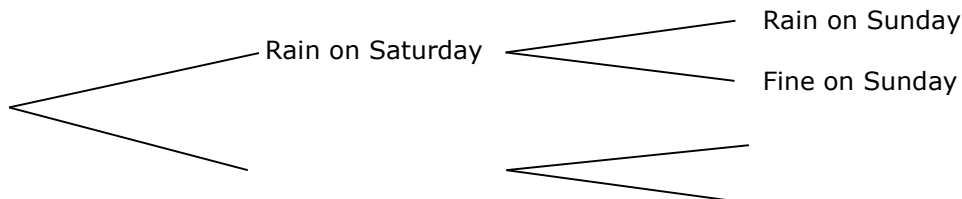
What is the probability a random marble is:

- red?
 - a red striped one?
 - white, if it is striped?
 - striped, if it is white?
3. Dice come in a variety of shapes, but all count upwards from 1.
If the probability I get less than a three on a dice is one-fifth, how many sides does it have?



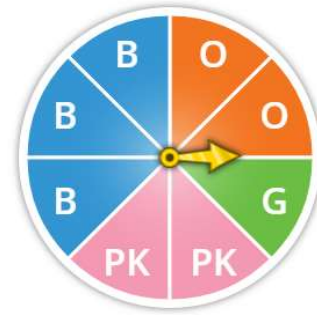
4. A bag has 5 red marbles and some of other colours in it.
If the probability is $\frac{1}{4}$ of getting a red marble, how many other coloured ones are there?

5. The probability it will rain on Saturday is 30% and that it will rain on Sunday is 40%.
Complete the table below and calculate the probability there will be at least one rainy day in the weekend.



Answers : Routine Probability Practice #4

1. A spinner is marked as shown to the right with blue (B), orange (O), green (G), and pink (PK) sections.



If I spin it, what is the probability I get:

- a) a blue section? **75% or $\frac{6}{8}$ or $\frac{3}{4}$**
 b) a green section? **12.5% or $\frac{1}{8}$**
 c) not an orange section? **75% or $\frac{6}{8}$ or $\frac{3}{4}$**

2. The colour and pattern of marbles in a bag is shown:

	Striped	Plain	Total
Red	20	10	30
White	15	25	40
Blue	10	20	30
Total	45	55	100

What is the probability a random marble is:

- a) red? **30% or $\frac{30}{100}$ or $\frac{3}{10}$**
 c) a red striped one? **20% or $\frac{20}{100}$ or $\frac{1}{5}$**
 d) white, if it is striped? **$\frac{15}{45}$ or $\frac{1}{3}$ (of the 45 striped ones, 15 are white)**
 e) striped, if it is white? **$\frac{15}{40}$ or $\frac{3}{8}$ (of the 40 white ones, 15 are white)**

3. Dice come in a variety of shapes, but all count upwards from 1.

If the probability I get less than a three on a dice is one-fifth, how many sides does it have?

10 sides (because less than 3 is two sides and $\frac{1}{5} = \frac{2}{10}$)



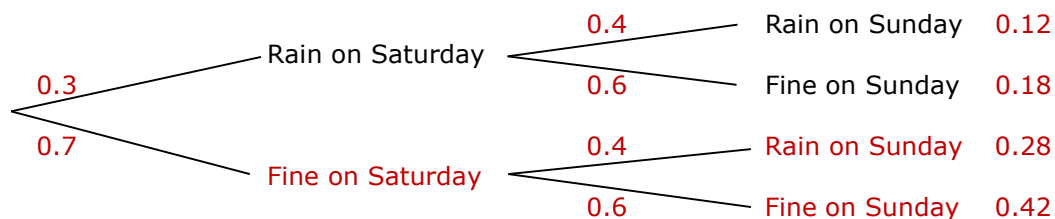
4. A bag has 5 red marbles and some of other colours in it.

If the probability is $\frac{1}{4}$ of getting a red marble, how many other coloured ones are there?

15 other colour marbles ($\frac{1}{4} = \frac{5}{20}$ so there must be 20 marbles in total)

5. The probability it will rain on Saturday is 30% and that it will rain on Sunday is 40%.

Complete the table below and calculate the probability there will be at least one rainy day in the weekend.



$0.12 + 0.18 + 0.28 = \mathbf{0.58}$ (or 58%) **chance** at least one day rains