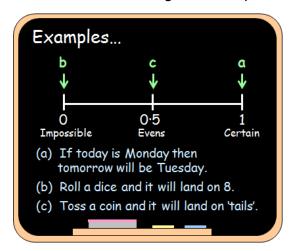
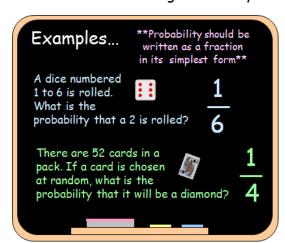
Working with Probability



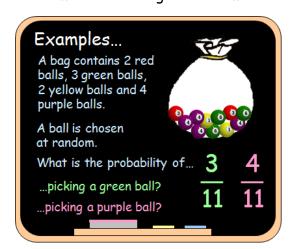
Outcome 1 - Estimating Probability



Outcome 2 - Calculating Probability



Outcome 3 - Choosing at Random



Questions...

Draw a probability line for each of these sets of events...

- (a) A tennis player will win Wimbledon this year.
 - (b) Toss a coin and it will land on 'heads'.
 - (c) If today is Wednesday then tomorrow will be Friday.
- (a) The Christmas holidays will be in June next year. (b) An ice-cream will melt if left on a hot, summer's day.
 - (c) Roll a dice and it will land on an odd number.
- The next person you see will be male.
- A rugby team will win the next 6 nations tournament.
 - (c) Peru will win the football European Championships.
- (a) Picking, at random, a red playing card.
 - The sun will rise tomorrow morning.
 - (c) September will come before August next year.
- (a) April will have more than 30 calendar days next year.
 - (b) Picking an even number from 2, 3, 4, 5, 6, 7, 8, 9.
 - (c) The total score of 2 dice is more than 12.

Questions...

Write down the probability of each event happening...

- Tossing a coin and getting 'heads'. 🟡
- 🙎 Picking a month of the year at random and choosing July.
- getting a 3.
 - Rolling a dice and 🛮 🚣 Choosing a playing card at 🤻 random and getting a spade.
- Picking a day of the From a bowl containing an week at random and apple, a banana, and an choosing Wednesday. appre, a banana, and an choosing Wednesday.
- U from the word RIGOUR.
- Selecting the letter 🙎 Choosing a red pencil from a box containing a red, a yellow and a green pencil.
- the year, choosing Easter Sunday.
- From the days of Picking the number 10 from the numbers on

a clock face.

Questions...

A bag contains 2 green counters, 3 red counters, a yellow counter and a blue counter. A counter is chosen at random. What is the probability of choosing...

- a red counter?
- a green counter?
- a yellow counter?
- a purple counter?
- a blue counter?

A bag contains 5 purple tokens, 2 red tokens, 3 blue tokens and a green token. A token is chosen at random. What is the probability of choosing...







a blue token? a yellow token?



a green token?

Outcome 1 Answers

Outcome 2 Answers

- 1/12
 1/4 1. 1/2
- 3. 1/6 5. 1/7 4.
- 6. 1/3
- 8. 1/ 1/12 7. 1/6 8. 9. 1/365 10.

Outcome 3 Answers

- 1. 3/7 2. 2/7
- 4. 0
- 6. 5/11
- 3. 1/7 5. 1/7 7. 2/11 8. 3/11
- 9. 1/11 10. 0