



MNU 3-22a




Homework 5

Gold Level









Outcome 1 - Estimating Probability

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

- 1 (a) An animal picked from 3 cats and 7 dogs will be a dog.
(b) Selecting the letter S from the word YOUNGSTERS.
(c) Rolling a dice and getting an odd number. 
- 2 (a) Selecting the letter E from the word SIXTEENTHS.
(b) Picking an apple from a bowl with 4 apples, 5 pears and a banana. 
(c) Picking a black pen from a box with 3 red and 7 black.
- 3 (a) Selecting the letter P from the word MODERATION.
(b) Toss a coin and it will land on 'tails'.
(c) Choosing an even number from 2, 2, 2, 4, 4, 5, 6, 8, 8, 10. 
- 4 (a) Selecting an odd number from 1, 3, 4, 5, 6, 7, 8, 8, 9, 11.
(b) Picking the 1 bad pear from a bag of 10 pears.
(c) The next child you see will be a boy.

Outcome 2 - Calculating Simple Probability

Write down the probability of each event happening...

- 1 Rolling a dice and getting a factor of 6. 
- 2 Picking an odd number from the list :- 1, 3, 5, 6, 8, 9, 10, 12, 14, 15.
- 3 Selecting the letter S from the word ASSESSMENT.
- 4 Picking an even number from the list :- 1, 1, 2, 3, 4, 5, 5, 6, 7, 8, 9, 9.
- 5 Scoring more than 18 on a dartboard numbered 1-20. 
- 6 Winning a raffle when Buying 18 out of the 150 tickets sold.
- 7 Choosing a four from a pack of playing cards. 
- 8 Choosing a red pencil from a box containing a 6 red, 8 blue and 4 green pencils. 
- 9 Choosing a boy at random from 10 boys and 16 girls. 
- 10 From a bowl containing 3 apples, 5 oranges, 4 pears and 2 oranges, selecting an orange. 

Outcome 3 - Choosing at Random

A bag contains a green counter, 2 red counters, 4 yellow counters and a blue counter. A counter is chosen at random. What is the probability of **NOT** choosing...

- 1 a green counter?
- 2 a red counter?
- 3 a yellow counter?
- 4 a blue counter?
- 5 a purple counter?

A bag contains 2 purple tokens, 3 red tokens, 10 blue tokens and 15 green tokens. A token is chosen at random. What is the probability of **NOT** choosing...

- 6 a purple token?
- 7 a red token?
- 8 a blue token?
- 9 a green token?
- 10 a yellow token?