# $RIG \oplus UR$



### MNU 3-22a

### Homework 5

### Gold Level



#### Outcome 1 - Estimating Probability

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



- (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.





- (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.



- (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.





- (a) Selecting an odd number form 1, 3, 4, 5, 6, 7, 8, 8, 9, 11.
- (b) Picking the 1 bad pear from a bag of 10 pear.
- (c) The next child you see will be a boy.

## Outcome 2 - Calculating Simple Probability

Write down the probability of each event happening...



Rolling a dice and getting a factor of 6.



Picking an odd number from the list :-

1, 3, 5, 6, 8, 9, 10, 12, 14, 15.

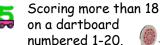


Selecting the letter S from the word ASSESSMENT.



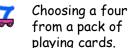
Picking an even number from the list :-

1, 1, 2, 3, 4, 5, 5, 6, 7, 8, 9, 9.





Winning a raffle when Buying 18 out of the 150 tickets sold.





Choosing a red pencil from a box containing a 6 red, 8 blue and 4 green pencils.



Choosing a boy at random from 10 boys and 16 girls.



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...



a green counter?



a red counter?



a yellow counter?



a blue counter?



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...



a purple token?



a red token?



a blue token?



a green token?



a yellow token?