MNU 4-22a Homework 3 Bronze Level

Outcome 1 - Estimating Probability

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

1. (a) Selecting the letter C from the word CORRECTING.
   (b) Toss a coin and it will land on 'tails'.
   (c) Choosing an even number from 1, 2, 2, 3, 4, 5, 7, 8, 9, 11.
2. (a) An animal picked from 8 cats and 2 dogs will be a dog.
   (b) Selecting the letter S from the word PESSIMISTS.
   (c) Picking a black card from a pack of playing cards.
3. (a) Selecting an odd number form 2, 3, 4, 5, 6, 7, 8, 8, 10, 11.
   (b) Picking the 1 bad pear from a bag of 10 pears.
   (c) The next child you see will be a boy.
4. (a) Selecting the letter N from the word RECOUNTING.
   (b) Picking an apple from a bowl with 6 apples, 3 pears and a banana.
   (c) Picking a black pen from a box with 7 red and 3 black.

Outcome 2 - Calculating Simple Probability

Write down the probability of each event happening...

1. Rolling a dice and getting a score less than 4.
2. Picking an odd number from the list :- 1, 3, 4, 6, 8, 9, 10, 12, 14, 15.
3. Selecting the letter P from the word POWERPOINT.
4. Picking an even number from the list :- 2, 3, 5, 7, 8, 11, 13, 15.
5. Scoring more than 8 on a dartboard numbered 1-20.
6. Winning a raffle when Buying 14 out of the 150 tickets sold.
7. Choosing a six from a pack of playing cards.
8. Choosing a red pencil from a box containing a 6 red, 8 blue and 2 green pencils.
9. Choosing a boy at random from 6 boys and 12 girls.
10. From a bowl containing 4 apples, 10 oranges, 2 pears and 6 oranges, selecting an orange.

Outcome 3 - Choosing at Random

A bag contains a green counter, 3 red counters, 2 yellow counters and 6 blue counters. 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 a purple token, 2 red tokens, 6 blue tokens and 9 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?