Foundation Worksheet

4:02 | Experimental Probability

	-	
		Class:
Name:		
Turnor		



Probability of an event $=\frac{\text{number of times event occurs}}{1}$

Exercise



- 1 In a class of 24, 12 are blondes, 10 are brunettes and 2 are redheads. Find the probability that one student, chosen at random, will be:
 - a blonde

- b not brunette
- 2 There are 40 cars in a car yard: 12 are Fords, 10 are Holdens, 6 are Toyotas, 5 are Mitsubishis. Find the probability that a car, selected randomly, will be:
 - a a Holden

b a Ford

c a make not mentioned

- d not a Mitsubishi
- e a Ford or a Toyota
- 3 There are 16 books on the shelf-6 have green covers and 10 have red covers. Four of the red-covered books are mathematics texts. What is the probability of choosing at random: c a white book?
 - a a green book?
- b a red book?

- d a mathematics book?
- e a red non-mathematics book?
- f a non-mathematics book?
- g a green or a mathematics book?
- 4 The table shows the results of rolling a dice 50 times. Use this information to find the probability that my next roll will be:
 - a 3

b an even number

c less than 3

d 2 or 3 or 4

Frequency	
8	
12	
10	
9	
6	
5	

- 5 A black bag contains 80 marbles. If 30 are red, 20 blue, 16 green and the rest yellow, find the probability that I choose at random:
 - a a red

b a blue

c a yellow

- d a colour other than red
- e a green or a yellow
- f a black
- 6 In Angela's class there are 14 girls and 10 boys. A student is selected at random to run a message. What is the probability the student is:
 - a aboy?

b a girl?

c Angela?

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b $\frac{7}{12}$

b $\frac{3}{10}$

 $c = \frac{7}{40}$

 $d \frac{7}{8}$

e $\frac{9}{20}$, e $\frac{3}{8}$

 $b = \frac{5}{8}$

b $\frac{13}{25}$

c $\frac{2}{5}$

. c 0

d $\frac{1}{4}$ d $\frac{31}{50}$

3 a

c $\frac{7}{40}$

 $d \frac{5}{8}$

e $\frac{3}{8}$

f 0

 $f = \frac{3}{4}$

 $g = \frac{5}{8}$

5 a $\frac{3}{8}$ 6 a $\frac{5}{12}$

b $\frac{7}{12}$