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Probability Problems

1) A number is chosen at random from 1 to 10. Find the probability of selecting number 4 or smaller numbers.

Ans 1/5

Including 4 there are 4 $\,$ numbers that are smaller than 4. So 4/10

4/10= 3/5 = 0.4

2) Bag A contains 9 red marbles and 3 green marbles. Bag B contains 9 black marbles and 6 orange marbles. What is the probability of selecting a green marble at random from bag A? What is the probability of selecting a black marble at random from Bag B?

Ans. bag A contains 9+3=12 1/12=1/4 =0.25 Bag B contains 9+6= 15 1/15=1/15

3) A number is chosen at random from 1 to 50. What is the probability of selecting multiples of 10. -

Ans. There are 5 multiples of 10 in 50 10, 20, 30, 40, 50 \(\frac{1}{5} = 1/5\)

4) A card is chosen from a well-shuffled deck of 52 cards. What is the probability that the card will be a king OR a queen?
Ans. 2/13
8/52 divided by 4= 2/13

5) A number is chosen at random from 1 to 10. What is the probability of selecting a multiple of 3. Ans. Multiples of 3 in 10 are 3,6,9 3/10=

Commented [1]: Recheck this answer; should be 3/5

A spinner, numbered 1-8, is spun once. What is the probability of spinning ...

6) an EVEN number?

Ans. There are 4 even numbers in 1-8 = 2, 4, 6, 8 $4/8 = \frac{1}{2}$

7) a multiple of 3? Ans. There are 2 multiples of 3 in i -8 - 3, 6 2/8= 1/4

8) a PRIME number? Ans. There are 4 prime numbers in 1-8 , 2,3,5,7 4/8 = 1/4

9) number 9? Ans. 0 There is no number 9 in 1-8 Commented [2]: Recheck calculations, should be 1/2.