Name: ..... Class: .....

Probability of simple events and opposite events.

General formulae = P(not A) = 1 - P(A)

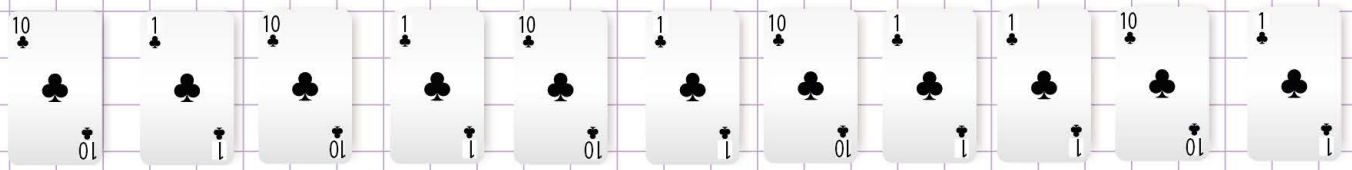
1. **You roll a die.**
   What is P(not greater than 3)? Write your answer as a percentage.

2. **You roll a die.**
   What is P(not odd)?

3. **If you roll a 6 – sided die,**
   what is P (not odd)?

4. **If you spin the spinner below once,**
   What is P (not odd)?

5. **You pick a card at random**
   What is P (not equal to 10)?



Solution

Name: ..... Class: .....

Probability of simple events and opposite events.

General formulae = P(not A) = 1 - P(A)

1. You roll a die

What is P(not greater than 3)? Write your answer as a percentage.

The die has 6 sides, 1, 2, 3, 4, 5, 6.

The numbers greater than 3 are 4, 5, and 6.

So, P(greater than 3) = $\frac{3}{6}$

Using the formulae above, find P(not greater than 3).

1 - P(greater than 3)

1 - $\frac{3}{6}$

1 - 0.5 = 0.5

Now, multiply 0.5 by 100 to convert to percentage.

0.5 x 100 = 50%

So, P(not greater than 3) = 50%.

2. So, P(not odd) = $\frac{1}{2}$.

3. So, P (not odd) is $\frac{1}{2}$.

4. So, P (not odd) is $\frac{1}{2}$.

5. So, P (not equal to 10) is 10/11.