

Answer the following questions:

1	<p>A basket contains 23 roses, 25 jasmines, 7 dahlias and 45 hibiscuses. A flower is picked at random from that basket. What is the probability of picking:</p> <ul style="list-style-type: none">a) a rose?b) a jasmine?c) a dahlia?d) a hibiscus?	
2	<p>A box is filled with marbles. There are 20 red, 30 blue, 10 yellow, 20 white, and 30 green marbles. What is the probability of picking</p> <ul style="list-style-type: none">a) a red marble?b) a blue marble?c) a red or a blue marble?	
3	<p>A die is rolled.</p> <ul style="list-style-type: none">a) Write the sample space of the experiment.b) Write down the event "an even number is obtained"c) Find the probability that an even number is obtainedd) Write down the event "an odd number is obtained"e) Find the probability that an odd number is obtained	
4	<p>Two coins are tossed.</p> <ul style="list-style-type: none">a) Write the sample space of the experiment.b) Write down the event "two heads are obtained"c) Find the probability the event "two heads are obtained"d) Write down the event "two tails are obtained"e) Find the probability the event "two tails are obtained"f) Write down the event "one tail is obtained"g) Find the probability the event "one tail is obtained"	

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	<p>h) Write down the event “one head is obtained”</p> <p>i) Find the probability the event “one head is obtained”</p>	
5	<p>Write down the sample space of the following:</p> <p>a) For tossing a coin</p> <p>b) For tossing two coins</p> <p>c) For tossing three coins</p>	
6	<p>Write down the sample space of the following:</p> <p>a) For throwing one die</p> <p>b) For throwing two dice</p>	
7	<p>A bag contains 4 balloons of different colours- purple (P), white (W), green (G) and black (B). If two balloons drawn at random, what is its sample space?</p>	
8	<p>There are 6 pink pencils, 5 red pencils, 5 purple pencils and 4 black pencils. If you select one pencil randomly, what is the probability that it will be a black pencil?</p>	
9	<p>There are 6 chairs in a room. 2 are red, 1 is yellow, 2 are blue and 1 is black. What is the probability of picking a red chair?</p>	
10	<p>A bag contains a purple ball (P), a white ball (W), a green ball. If Mathew picks a ball randomly, what is the probability of getting</p> <p>a) a purple ball (P)</p> <p>b) a white ball (W)</p> <p>c) a green ball (G)</p>	

Answer Key:

1	<p>Total number of flowers= 100</p> <p>a) Rose= $23/100$ b) Jasmine= $25/100=1/4$ c) Dahlia=$7/100$ d) Hibiscus= $45/100 =9/20$</p>
2	<p>Total marbles= 110</p> <p>a) Red= $20/110 = 2/11$ b) Blue =$30/110= 3/11$ c) Red or Blue = $\frac{2}{11} + \frac{3}{11}$ $= \frac{5}{11}$</p>
3	<p>a) Sample Space, $S = \{1,2,3,4,5,6\}$ b) $E = \{2,4,6\}$ c) $P (E) = 3/6 =1/2$ d) $E= \{1,3,5\}$ e) $P (E) = 3/6 =1/2$</p>
4	<p>a) Sample Space, $S = \{(H, H), (H, T), (T, H), (T, T)\}$ b) $E =\{(H, H)\}$ c) $P (E) = 1/4$ d) $E =\{(T, T)\}$ e) $P (E) = 1/4$ f) $E= \{(H, T), (T, H)\}$ g) $P (E) = 2/4 = 1/2$ h) $E= \{(H, T), (T, H)\}$ i) $P (E) = 2/4 = 1/2$</p>
5	<p>a) Sample Space, $S = \{(H), (T)\}$ b) Sample Space, $S = \{(H, H), (H, T), (T, H), (T, T)\}$ c) Sample Space, $S= \{(H,H,H), (T,T,T), (H,T,T), (T,H,T), (T,T,H), (T,H,H), (H,T,H), (H,H,T)\}$</p>

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6	<p>a) Sample Space, $S = \{1,2,3,4,5,6\}$</p> <p>b) Sample Space, $S =$ $\{(1,1),(1,2),(1,3),(1,4),(1,5),(1,6).$ $(2,1),(2,2),(2,3),(2,4),(2,5),(2,6).$ $(3,1),(3,2),(3,3),(3,4),(3,5),(3,6).$ $(4,1),(4,2),(4,3),(4,4),(4,5),(4,6).$ $(5,1),(5,2),(5,3),(5,4),(5,5),(5,6).$ $(6,1),(6,2),(6,3),(6,4),(6,5),(6,6)\}$</p>
7	<p>a) Sample Space, $S =$ $\{PW, PG, PB, WG, WB, GB\}$</p>
8	<p>Total pencils= 20 Black Pencil= $4/20 = 1/5$</p>
9	<p>$P(E) = \frac{\text{Number of Red Chairs}}{\text{Total Number of Chairs}}$ $P(E) = \frac{2}{6} = \frac{1}{3}$</p>
10	<p>Total Balls= 3</p> <p>The probability of getting a</p> <p>a) Purple Ball = $1/3$ b) White Ball = $1/3$ c) Green Ball = $1/3$</p>