

Brilliance Tuition Centre, Redbank Plains

MATHS WORKSHEETS- PROBABILITY- TOSSING COIN

Sample Space and Outcome of tossing

a coin	Total Outcomes: 2. Sample Space, $S = \{H, T\}$ 
two coins	Total Outcomes: 4. Sample Space, $S = \{(HH), (HT), (TH), (TT)\}$ 
three coins	Total Outcomes: 8. Sample space $S = \{HHH, HHT, HTH, HTT, THH, THT, TTH, TTT\}$ 

Answer the following questions:

1	If a coin is tossed 400 times and the head appears 139 times, what is the probability of getting a head?	
2	A coin is tossed 100 times. The head appeared 57 times and the tail appeared 43 times. Find the probability of getting a) a head b) a tail	
3	Write down the possible number of outcomes of tossing a) a coin b) two coins c) three coins	
4	A coin is tossed at random. What is the probability of getting a) a head b) a tail	

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5	<p>Two coins are tossed simultaneously. Write the sample space and the number of outcomes for getting</p> <ul style="list-style-type: none">a) at least one headb) same face on the coinsc) different faces on the coins	
6	<p>Two coins are tossed simultaneously. Write the probability of getting</p> <ul style="list-style-type: none">a) at least one headb) same face on the coinsc) different faces on the coins	
7	<p>Write down the possible outcomes of tossing three coins simultaneously.</p>	
8	<p>Three coins are tossed simultaneously. What is the probability of getting at least 2 tails?</p>	
9	<p>Two coins are tossed simultaneously. Find the probability of getting</p> <ul style="list-style-type: none">a) only one head?b) only one tail?c) at least one head?d) at least one tail?e) two heads?f) two tails?	
10	<p>Three coins are tossed simultaneously. Find the probability of getting</p> <ul style="list-style-type: none">a) at least two tails?b) at least one tail?c) at least two heads?d) all three heads?e) all three tails?	

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Answer Key:

- 1 139/400
2 a) 57/100
 b) 43/100
3 a) 2
 b) 4
 c) 8
4 a) $\frac{1}{2}$
 b) $\frac{1}{2}$
5 a) $S = \{(HH), (HT), (TH)\}$ Outcomes: 3
 b) $S = \{(HH), (TT)\}$ Outcomes: 2
 c) $S = \{(HT), (TH)\}$ Outcomes: 2
6 a) $\frac{3}{4}$
 b) $2/4 = \frac{1}{2}$
 c) $2/4 = 1/2$
7 Sample space $S = \{HHH, HHT, HTH, HTT, THH, THT, TTH, TTT\}$ outcome: 8

8 Sample space $S = \{HTT, THT, TTH, TTT\}$ Outcome: 4
Probability = $4/8 = 1/2$

9 $S = \{(HH), (HT), (TH), (TT)\}$
a) $2/4 = 1/2$
b) $2/4 = 1/2$
c) $\frac{3}{4}$
d) $\frac{3}{4}$
e) $\frac{1}{4}$
f) $\frac{1}{4}$

10 $S = \{HHH, HHT, HTH, HTT, THH, THT, TTH, TTT\}$
a) $4/8 = 1/2$
b) $7/8$
c) $4/8 = 1/2$
d) $1/8$
e) $1/8$