

## MATHS WORKSHEETS- PROBABILITY- COMPLEMENTARY EVENTS- WORD PROBLEMS

Answer the following questions.

1	<p>The probability of having a rainy day today is <math>\frac{2}{7}</math>. What is the probability of today not being a rainy day?</p>									
2	<p>A letter is chosen from the word PROBABILITY. What is the probability that the chosen letter is</p> <table style="width: 100%; border: none;"> <tbody> <tr> <td style="width: 50%;">a) a vowel?</td> <td style="width: 50%;">b) not a vowel?</td> </tr> <tr> <td>c) a letter T?</td> <td>d) not T?</td> </tr> <tr> <td>e) the letter P or L?</td> <td>f) not the letter P or L?</td> </tr> <tr> <td>g) the letter B or T?</td> <td>h) not the letter B or T?</td> </tr> </tbody> </table>	a) a vowel?	b) not a vowel?	c) a letter T?	d) not T?	e) the letter P or L?	f) not the letter P or L?	g) the letter B or T?	h) not the letter B or T?	
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3	<p>A jar has 5 red candies, 7 yellow candies and 11 orange candies. If a candy is picked at random, what is the probability that the picked candy is</p> <table style="width: 100%; border: none;"> <tbody> <tr> <td style="width: 50%;">a) red?</td> <td style="width: 50%;">b) not red?</td> </tr> <tr> <td>c) yellow?</td> <td>d) not yellow?</td> </tr> <tr> <td>e) orange?</td> <td>f) not orange?</td> </tr> <tr> <td>g) either red or yellow?</td> <td>h) either yellow or orange?</td> </tr> </tbody> </table>	a) red?	b) not red?	c) yellow?	d) not yellow?	e) orange?	f) not orange?	g) either red or yellow?	h) either yellow or orange?	
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4	<p>A card is chosen from a pack of 52 cards. Find the probability that the chosen card is</p> <table style="width: 100%; border: none;"> <tbody> <tr> <td style="width: 50%;">a) a black card?</td> <td style="width: 50%;">b) not a black card?</td> </tr> <tr> <td>c) a king?</td> <td>d) not a king?</td> </tr> <tr> <td>e) a red card?</td> <td>f) not a red card?</td> </tr> <tr> <td>g) a spade?</td> <td>h) not a spade?</td> </tr> </tbody> </table>	a) a black card?	b) not a black card?	c) a king?	d) not a king?	e) a red card?	f) not a red card?	g) a spade?	h) not a spade?	
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c) a king?	d) not a king?									
e) a red card?	f) not a red card?									
g) a spade?	h) not a spade?									
5	<p>The number cards 1 to 10 are put inside a jar and one card is chosen at random. Find the probability that the chosen card is</p> <table style="width: 100%; border: none;"> <tbody> <tr> <td style="width: 50%;">a) an odd number?</td> <td style="width: 50%;">b) an even number?</td> </tr> <tr> <td>c) a prime number?</td> <td>d) not a prime number?</td> </tr> </tbody> </table>	a) an odd number?	b) an even number?	c) a prime number?	d) not a prime number?					
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Answer Key:

1  $= 1 - \frac{2}{7} = \frac{5}{7}$

2 Total letters= 11

a) O, A, I, I = 4/11

b)  $1 - 4/11 = 7/11$

c) 1/11

d)  $1 - 1/11 = 10/11$

e) 2/11

f)  $1 - 2/11 = 9/11$

g) 3/11

h)  $1 - 3/11 = 8/11$

3 Total = 23

a) 5/23

b)  $1 - 5/23 = 18/23$

c) 7/23

d)  $1 - (7/23) = 16/23$

e) 11/23

f)  $1 - (11/23) = 12/23$

g) 12/23

h) 18/23

4 Total Cards: 52

a)  $26/52 = 1/2$

b)  $26/52 = 1/2$

c)  $4/52 = 1/13$

d)  $1 - 1/13 = 12/13$

e)  $26/52 = 1/2$

f)  $26/52 = 1/2$

g)  $13/52 = 1/4$

h)  $1 - 1/4 = 3/4$

5 a) 1,3,5,7,9 = 5/10 = 1/2

b) 2,4,6,8,10 = 1/2

c) 2,3,5,7 = 4/7

d)  $1 - 4/7 = 3/7$