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## 7<sup>TH</sup> GRADE PROBABILITY WORKSHEETS

1. What is the probability of getting a tails, when two coins are tossed?
2. What is the probability of getting a prime number, when a dice is rolled?  
(a)  $\frac{1}{2}$       (b)  $\frac{1}{3}$       (c)  $\frac{1}{6}$       (d)  $\frac{2}{3}$       (e)  $\frac{5}{6}$
3. A card is drawn from a pack of cards. What is the probability of drawing a red king?  
(a)  $\frac{1}{13}$       (b)  $\frac{1}{52}$       (c)  $\frac{3}{4}$       (d)  $\frac{7}{52}$       (e)  $\frac{1}{2}$
4. A bag contains 8 white balls, 5 green balls, 7 blue balls, and 10 black balls. If a single ball is picked at random from the bag, what is the probability that the ball is either a black or a white ball?  
(a)  $\frac{2}{15}$       (b)  $\frac{1}{11}$       (c)  $\frac{9}{32}$       (d)  $\frac{5}{18}$



1.

5. What is the probability of getting a prime number, when a number is picked between 1 and 30?
6. Tickets numbered 1 to 30 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn at random, has a multiple of 4 or 6?  
(a)  $\frac{1}{2}$       (b)  $\frac{7}{20}$       (c)  $\frac{8}{15}$       (d)  $\frac{9}{20}$

7. A coin is tossed 850 times, and gets heads for 510 times, tails for 340 times. What is the probability of getting a heads?



8. In a throw of two dice, find the probability of getting a digit of 5 at least on one dice.  
 (a)  $1/3$       (b)  $5/18$       (c)  $11/36$       (d)  $7/36$
9. A number  $X$  is chosen at random from the numbers  $-3, -2, -1, 0, 1, 2, 3$ . What is the probability that  $|X| > 1$   
 (a)  $5/7$       (b)  $4/7$       (c)  $3/5$       (d)  $1/3$
10. The odd against an event are  $5 : 3$ . Find the probability of not happening of the event.  
 (a)  $4/9$       (b)  $9/13$       (c)  $5/8$       (d) None of these
11. There are 5 different types of tasks in a department. In how many possible ways can 5 workers pick up the 5 tasks?  
 (a) 120      (b) 520      (c) 720      (d) 840
12. What is the probability of choosing a consonant from the set of english alphabets?
13. A number is chosen at random from the set  $A = (1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29)$ . The probability that it is a multiple of 3 is \_\_\_\_\_ .
14. What is the probability that a card picked from a pack of 52 cards would be a hearts or a queen?
15. The probability of John passing an exam is 45% and the probability of Soan passing an exam is 60%.

What is the probability that only one of them passes the exam?

16. On rolling two dices, what is the probability of getting the sum of the outcomes as 5?
17. What is the probability of drawing a non-face card from a pack of 52 cards?  
(a)  $1/13$       (b)  $4/13$       (c)  $9/13$       (d)  $9/52$
18. In a fruit basket contains 8 red apples, and 16 green apples. What is the probability of picking one green apple from the bag?
19. In a class on 60 students 20 play badminton, 30 play tennis, and 12 play both the games. What is the probability that a student does not play any of these two games?
20. When two coins are tossed simultaneously, what is the probability of getting different outcome on both the coins?

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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

|    |                    |
|----|--------------------|
| 1) | $\frac{1}{2}$      |
| 2) | (a) $\frac{1}{2}$  |
| 3) | (b) $\frac{1}{52}$ |
| 4) | (c) $\frac{9}{32}$ |
| 5) | $\frac{1}{3}$      |
| 6) | (b) $\frac{7}{20}$ |

|     |             |
|-----|-------------|
| 7)  | $3/5$       |
| 8)  | (c) $11/36$ |
| 9)  | (b) $4/7$   |
| 10) | (c) $5/8$   |
| 11) | (a) 120     |
| 12) | $21/26$     |
| 13) | $1/3$       |

|     |            |
|-----|------------|
| 14) | $15/52$    |
| 15) | 51%        |
| 16) | $1/9$      |
| 17) | (c) $9/13$ |
| 18) | $2/3$      |
| 19) | $11/30$    |
| 20) | $1/2$      |