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7TH GRADE PROBABILITY WORKSHEETS

1. When three coins are tossed, what is the probability of getting the same outcome?



2. The Probability can have values greater than or lesser than 1? (True / False)
3. The probability of a person winning a lottery is 2%. Express this probability in the form of a fraction.
4. When a dice is rolled, what is the probability of getting a number lesser than 4?
5. What is the probability of getting different numbers as ourcomes, when two dice and rolled?
6. Choose a number at random from 11 to 30. What is the probability that the number chosen is an odd number?
(a) $\frac{2}{3}$ (b) $\frac{1}{2}$ (c) $\frac{2}{5}$ (d) $\frac{3}{5}$
7. The probability of Samuel reaching the school on time is $\frac{4}{7}$. What is the probability of Samuel not reaching the school on time?
8. In a lottery, there are 12 prized and 48 blanks. A lottery is drawn at random. What is the probability of not winning the prize?
(a) $\frac{1}{10}$ (b) $\frac{2}{5}$ (c) $\frac{1}{5}$ (d) $\frac{5}{7}$
9. In a single throw of a dice, what is the probability of getting a number greater than 5?
(a) $\frac{1}{2}$ (b) $\frac{1}{3}$ (c) $\frac{1}{6}$ (d) $\frac{1}{4}$

10. What is the probability that a number selected from numbers $1, 2, 3, \dots, 20$, is a composite number, when each of the given numbers is equally likely to be selected?
(a) $11/20$ (b) $4/15$ (c) $1/3$ (d) $11/30$
11. In a class, there are 28 boys and 12 girls. If a student is selected at random, what is the probability that the student is a girl?
(a) $21/46$ (b) $3/10$ (c) $1/50$ (d) $3/25$
12. A box contains 50 apples, out of which 8 are rotten. If an apple is picked at random, what is the probability that it is a rotten apple?
(a) $4/19$ (b) $7/19$ (c) $4/25$ (d) $21/95$
13. In a class, 30% of the students like swimming, 50% like outdoor games, and 20% like both. If a student is selected at random, what is the probability that the student do not like swimming or outdoor games?
(a) $2/5$ (b) $\frac{3}{4}$ (c) $3/5$ (d) $2/5$
14. A exam has a multiple choice questions having one correct answer. A question has four options, and with one correct answers. What is the probability of getting the wrong answer for a question?



15. A number is selected at random from first 300 natural numbers. Find the probability that the number drawn is a perfect square.

16. P and Q are required to participate in a competition. If 30% and 20% are their respective probabilities of their winning the competition, then find the probability that neither of them wins the competition.
(a) 49% (b) 57% (c) 44% (d) 62%
17. A card is drawn from a pack of 52 cards. Find the probability of getting a number of 7.
(a) $11/26$ (b) $1/13$ (c) $\frac{1}{4}$ (d) $9/26$
18. In a throw of two dice, the probability of getting a sum of at most 6 is
(a) $7/36$ (b) $5/18$ (c) $5/36$ (d) None of these
19. How many three digit numbers can be formed using the digits 1, 2, 3, 4, 5, 6, 7 if repetition of digits is not allowed?
20. A course has 10 subjects, and the student has to clear at least 4 courses to be promoted to the next semester. What is the probability of a particular student being promoted to the next semester?

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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)	$\frac{1}{4}$
2)	False
3)	$\frac{1}{50}$
4)	$\frac{1}{2}$
5)	$\frac{5}{6}$
6)	(b) $\frac{1}{2}$

7)	$3/7$
8)	(c) $1/5$
9)	(c) $1/6$
10)	(a) $11/20$
11)	(b) $3/10$
12)	(c) $4/5$
13)	(d) $2/5$

14)	$\frac{1}{4}$
15)	$\frac{17}{300}$
16)	(d) 62%
17)	(b) $\frac{1}{13}$
18)	(c) $\frac{5}{36}$
19)	210
20)	$\frac{2}{5}$