

Year 7 Probability Worksheet



1. If one letter is chosen at random from the word emerged, what is the probability that the letter chosen is the letter "e"?

____ out of ____

2. If one letter is chosen at random from the word churned, what is the probability that the letter chosen is the letter "u"?

____ out of ____

3. Altaf is planning a vacation. He can go to a lake, a river, the mountains, the ocean, or a city. For each place, he can get there by taking a van, a car, an airplane, a train, or a bus. Given these choices, how many different combinations does Altaf have to choose from?

4. A bag contains 12 blue marbles, 15 purple marbles, 16 red marbles, 15 green marbles, and 13 yellow marbles. What is the probability of pulling out a blue or a purple marble?

5. Ryan is picking out a new skateboard. The board can be tan or gray, and the wheels can be purple or orange. The decal on the skateboard can be a tiger or a diamond. All of the decals come in bright blue, gold, beige, or navy blue. How many different combinations does Ryan have to choose from?

6. A number cube has 6 sides. The sides have the numbers 7, 7, 3, 3, 1, and 2. If the cube is thrown once, what is the probability of rolling an odd number?

____ out of ____

7. Lisa is deciding what to order at the ice cream shop. She can choose a chocolate cone, waffle cone, sugar cone, plain cone, or dish, and she can have vanilla or chocolate ice cream. She can have hot fudge, raspberry, butterscotch, caramel, or cherry sauce, and she can choose cookies, candy bar, gummy bears, nuts, or chocolate chips as a topping. How many different combinations can Lisa order?

8. A number cube has 6 sides. The sides are numbered 1 to 6. If the cube is thrown once, what is the probability of rolling the number 3 or the number 2?

____ out of ____

9. Mack is ordering a burger for lunch. He can have a chicken or turkey burger. The bun choices are onion, wheat, poppy seed, and sourdough. How many different combinations can Mack order?

10. John is planning his day. This morning, he can fix the sink or get a haircut. For lunch, he can have a salad or soup. This afternoon, he can go for a bike ride, shop for groceries, or go swimming. Given these choices, how many different combinations does John have to choose from?

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11. 40 students were given a test. The table below shows the cumulative frequency of the results obtained.

Mark	10	20	30	40	50	60	70	80	90	100
Number of students scoring the mark or less	2	5	8	11	18	24	30	32	37	40

a) State the probability that a student chosen at random will have a mark less than or equal to 60.

b) Two students are chosen at random from the 40 students. Find the probability that neither have marks more than 60.

c) A second group of students were tested and one-fifth of them scored more than 70 marks. If a student is now chosen at random from each group, find the probability that at least one student would have scored more than 70

12. Shaun wants to get a sandwich from the deli for lunch. He can pick a roast beef, ham, or tuna sandwich. The bread choices are sourdough, rye, multigrain, or wheat. How many different combinations can Shaun pick from?