

1. A number cube was thrown 125 times. The results are shown in the table below. Complete the table with the experimental probability for each outcome. (Round to the nearest percent)

Outcome	1	2	3	4	5	6
Frequency	15	25	20	26	18	21
Probability	12%					

The school spirit wear shop sells special sweatshirts with the school logo imprinted on them in sizes small, medium, large, x-large and xx-large. In the first hour the store is open, the first 50 customers buy 2 small, 4 medium, 5 large, 15 x-large, and the rest buy xx-large. Find the probability of the purchase of each of the different size sweatshirts from the store.

2. $P(\text{x-large sweatshirt})$
3. $P(\text{medium sweatshirt})$
4. $P(\text{xx-large sweatshirt})$
5. $P(\text{small or large sweatshirt})$

If the store has 225 customers in the second hour they are open, predict how many sweatshirts of each size will be sold based on the purchases during the first hour.

6. number of small sweatshirts sold
7. number of medium sweatshirts sold
8. number of xx-large sweatshirts sold
9. number of large and x-large sweatshirts sold

Find the probability of drawing the following colored candies from a jar containing 25 red, 15 blue, 20 green, 30 yellow, and 10 orange pieces of candy.

10. $P(\text{yellow})$

11. $P(\text{red})$

12. $P(\text{orange})$

13. $P(\text{blue})$

14. $P(\text{purple})$

15. $P(\text{blue or green})$

16. $P(\text{candy})$

17. $P(\text{red or yellow})$

18. There are 25 red, 16 green, 30 purple, 14 white, 20 black, and 15 orange marbles in a bag. What is the probability of picking a marble that is not purple?

19. What is the probability of tossing a 4 on a regular numerical cube?
