

1) Answer: C

Explanation: When you roll two fair six-sided dice, the sample space of the event will have 36 elements since both dice have six possible outcomes ($6 \times 6 = 36$).

The elements of the sample space where the numbers are equal are as follows:

- (1, 1) - this means that the first die results in 1 dot and the second die results in 1 dot.
- (2, 2) - this means that the first die results in 2 dots and the second die results in 2 dots.
- (3, 3) - this means that the first die results in 3 dots and the second die results in 3 dots.
- (4, 4) - this means that the first die results in 4 dots and the second die results in 4 dots.
- (5, 5) - this means that the first die results in 5 dots and the second die results in 5 dots.
- (6, 6) - this means that the first die results in 6 dots and the second die results in 6 dots.

There are 6 total outcomes where the resulting numbers of the dice are equal.

Using the formula for theoretical probability:

$$\text{Probability} = \frac{\text{number of favorable outcomes}}{\text{total number of outcomes}} = \frac{6}{36} = \frac{1}{6}$$

Thus, the answer is $\frac{1}{6}$.

2) Answer: B

Explanation: Obtaining a queen and a spade in a standard deck of cards is a non-mutually exclusive event since it is possible to obtain a card that is both a queen and a spade at the same time (i.e., queen of spades).

We are tasked to find the probability of picking a card that is either a queen or a spade. Take note of the word "or." This means we are looking for the probability of the event that we pick a queen or a spade from the deck of cards.

The formula for the probability that either one of two non-mutually exclusive events to happen is:

$$P(\text{queen or spade}) = P(\text{queen}) + P(\text{spade}) - P(\text{intersection of queen and spade})$$

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web polyatomic ions are molecular ions composed of two or more atoms bonded by covalent bonds and acting as a single unit

but unlike molecules they have a net charge on them the examples include cations like ammonium ion NH_4^+ and hydronium ion H_3O^+ and anions like hydroxide ion OH^- and cyanide ion CN^-

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web polyatomic ions worksheet polyatomic practice 1 name or write the formula for the following polyatomic ions sulfate CO_3^{2-} nitrite NO_2^- 1 permanganate MnO_4^- 1 perphosphate PO_4^{3-} 2 hypoiodite IO_2^- 1 chlorite ClO_2^- 2 phosphite PO_3^{3-} 3 percarbonate $\text{C}_2\text{O}_4^{2-}$ 1 bromate BrO_3^- 1 hyposulfite $\text{S}_2\text{O}_4^{2-}$ 3