

Find the Probability

Cards with the numbers 1 to 9 are placed face down on a table.

What is the probability that a card with 2, 4, 6 or 8 is chosen?

4 favorable outcomes

1, 2, 3, 4, 5, 6, 7, 8, 9

$$P(E) = \frac{\text{Number of favorable outcomes}}{\text{Number of possible outcomes}}$$
$$P(2, 4, 6 \text{ or } 8) = \frac{4}{9}$$

4 favorable outcomes
9 total outcomes

Write the answer.

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Description

In this activity, students have to work out the probability of an event occurring. *This activity is non adaptive.*

Teaching Hints

Use the visualization to show students how to list all possible outcomes and then count the favourable ones. Ask students to reconstruct the questions using cards, die, counters and marbles and see whether their result is close to the predicted.

Activities

A bag contains 2 red marbles and 3 blue marbles.

What is the probability that a red marble is chosen?

$$P(\text{red marble}) = \frac{2}{5}$$

ANSWER

Example

Five cards with the numbers 1 to 5 are randomly placed face down on a table.

What is the probability that a card with a 5 is chosen?

$$P(\text{card } 5) = \frac{1}{5}$$

ANSWER

Correct Answer

Cards with the numbers 1 to 8 are placed face down on a table.

What is the probability that a card with 2, 4, 6 or 8 is chosen?

$$P(2, 4, 6 \text{ or } 8) = \frac{2}{8} = \frac{4}{8}$$

ANSWER

Incorrect Answer