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so many fake sites. this is the first one which worked! Many thanks

10 Probability - Two Events

10.1 Recap: Basic Probability for One Event

In this section we review the use of probability for single events, remembering that

$$\text{Probability of an event} = \frac{\text{number of successful outcomes}}{\text{number of possible outcomes}}$$

Example 1

A table of results contains 10 red marbles, 7 blue marbles, 6 green marbles and 7 orange marbles. If a marble is taken at random from the table, what is the probability that it is

- (a) red,
- (b) orange,
- (c) green or red,
- (d) not blue?

Solution

There are 30 marbles in the table.

- (a) There are 10 red marbles in the table, so

$$P(\text{red}) = \frac{10}{30} = \frac{1}{3}$$

- (b) There are 6 orange marbles in the table, so

$$P(\text{orange}) = \frac{6}{30} = \frac{1}{5}$$

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