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Probability of mutually exclusive events and overlapping events

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mathskills4kids

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Probability of mutually exclusive events and overlapping events

So,
$$P(A \text{ or } B) = P(A) + P(B)$$

1. You spin the spinner once.

What is p(even or grater than 4)? Leave your answer as a percentage.

The events are mutually exclusive.

There are 3 even numbers; 2, 6, and 4

$$P(even) = \frac{3}{6}$$

Now, we also find P (greater than 4)

There are 3 numbers greater than 4; 5, 6, and 7

P (greater than 4) =
$$\frac{3}{6}$$

Now, we also find P (even or greater than 4)

P (even or greater than 4) = P(even) + P(greater than 4)

Multiply 1 by 100 to convert to percentage = $1 \times 100 = 100\%$

2. You flip a coin.

What is p(heads or tail)? Leave your answer as a percentage.

Fliping a coin has 2 possibilities, a head or a tail

The events are mutually exclusive.

$$P(head) = \frac{1}{2}$$

Now, we also find P (tails)

$$P(tail) = \frac{1}{2}$$

P (head or tail) = P(head) + P(tail)

$$\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1$$

Multiply 1 by 100 to convert to percentage = 1 x 100 = 100%