Use the language of probability and the probability scale

Maths

Mrs Dennett

Use the language of probability and the probability scale

1. Here is a numbered spinner.

Choose the word that best describes the likelihood of the events below.

likely   certain   impossible

Even chance   unlikely

a) The spinner lands on an even number.

b) The spinner lands on a 5

c) The spinner lands on a number less than 10

d) The spinner lands on a prime number.

e) The spinner lands on a multiple of 6

Use the language of probability and the probability scale

2. True or false?

- When I throw an ordinary dice, I am unlikely to roll a one.

- It's impossible to throw a coin 100 times and get 100 heads.

- There is an even chance of picking a red card from a pack of 52 playing cards.

3. Jack buys a raffle ticket for a tombola. There is only 1 prize.

Jack says, "I have an even chance of winning. That's because I can win or lose."

Is Jack correct?

Use the language of probability and the probability scale

4. True or false?

- 25% can be a probability.
- Probabilities can be written as a ratio.
- 1.2 can be a probability.

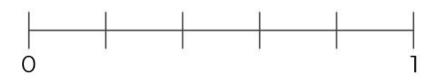5. Write the missing fractions on the probability scale.

6. Some coloured balls are placed in a bag. A ball is picked at random from the bag.
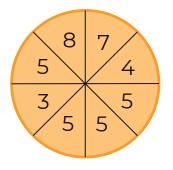

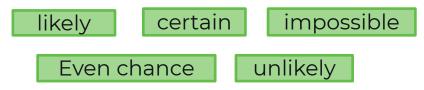Mark with an arrow the probability of getting an orange ball. Explain your reasoning.

Answers

Use the language of probability and the probability scale

1. Here is a numbered spinner.

Choose the word that best describes the likelihood of the events below.

likely   certain   impossible

Even chance   unlikely

a) The spinner lands on an even number. Unlikely

b) The spinner lands on a 5
Even chance

c) The spinner lands on a number less than 10
Certain

d) The spinner lands on a prime number. Likely

e) The spinner lands on a multiple of 6
Impossible

Use the language of probability and the probability scale

2. True or false?

- When I throw an ordinary dice, I am unlikely to roll a one.
  true

- It's impossible to throw a coin 100 times and get 100 heads.
  false

- There is an even chance of picking a red card from a pack of 52 playing cards.
  true

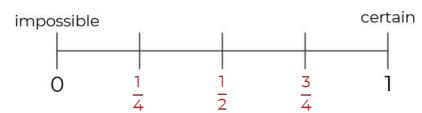3. Jack buys a raffle ticket for a tombola. There is only 1 prize.

Jack says, "I have an even chance of winning. That's because I can win or lose."

Is Jack correct?

No – more tickets lose than win

Use the language of probability and the probability scale

4. True or false?

- 25% can be a probability. true
- Probabilities can be written as a ratio. false
- 1.2 can be a probability. false

5. Write the missing fractions on the probability scale.

impossible

0    $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1

certain

6. Some coloured balls are placed in a bag. A ball is picked at random from the bag.

Mark with an arrow the probability of getting an orange ball. Explain your reasoning.

0   1

$\frac{1}{5}$ of the balls are orange