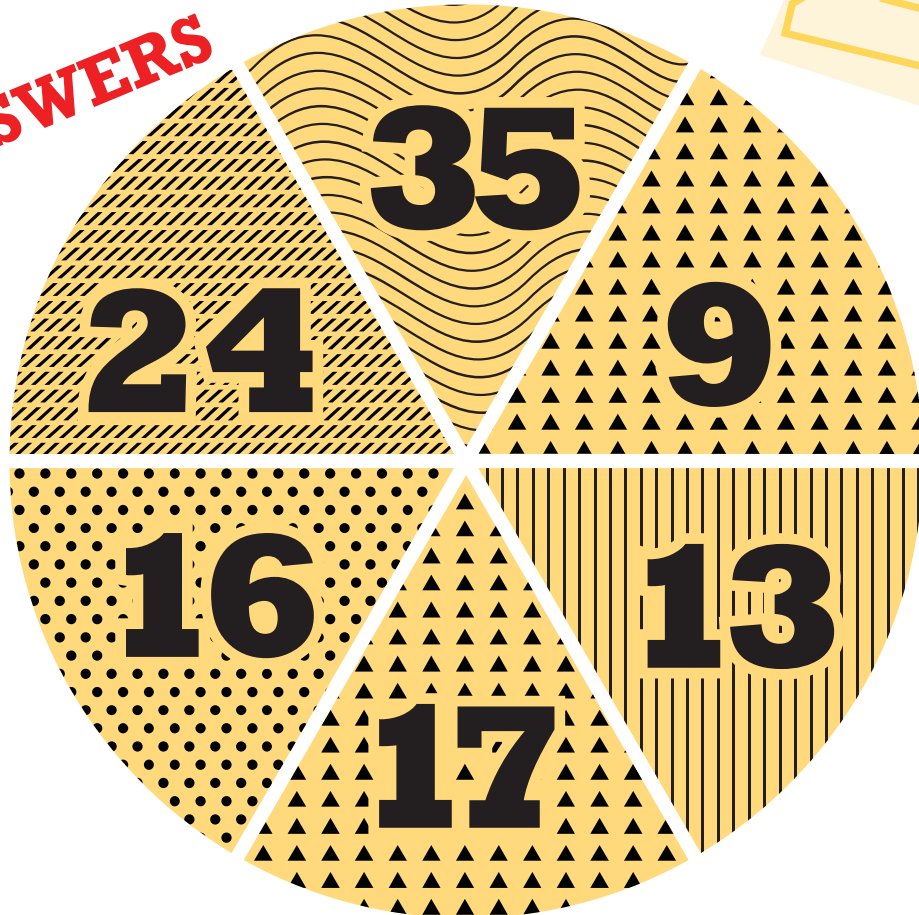# Probability Toss

Use fractions to express the probabilities of each outcome when a dart is thrown.

REMEMBER: Probability is the likelihood a given outcome will occur. It is expressed as a fraction.

2

ANSWERS

What is the probability that the next dart thrown hits a number that....

is an odd number?

4/6

has a 3 in any digit?

2/6

has a ▲▲▲▲▲ pattern?

2/6

is less than 20 ?

4/6

is in the teens ?

3/6

has a 〰 pattern?
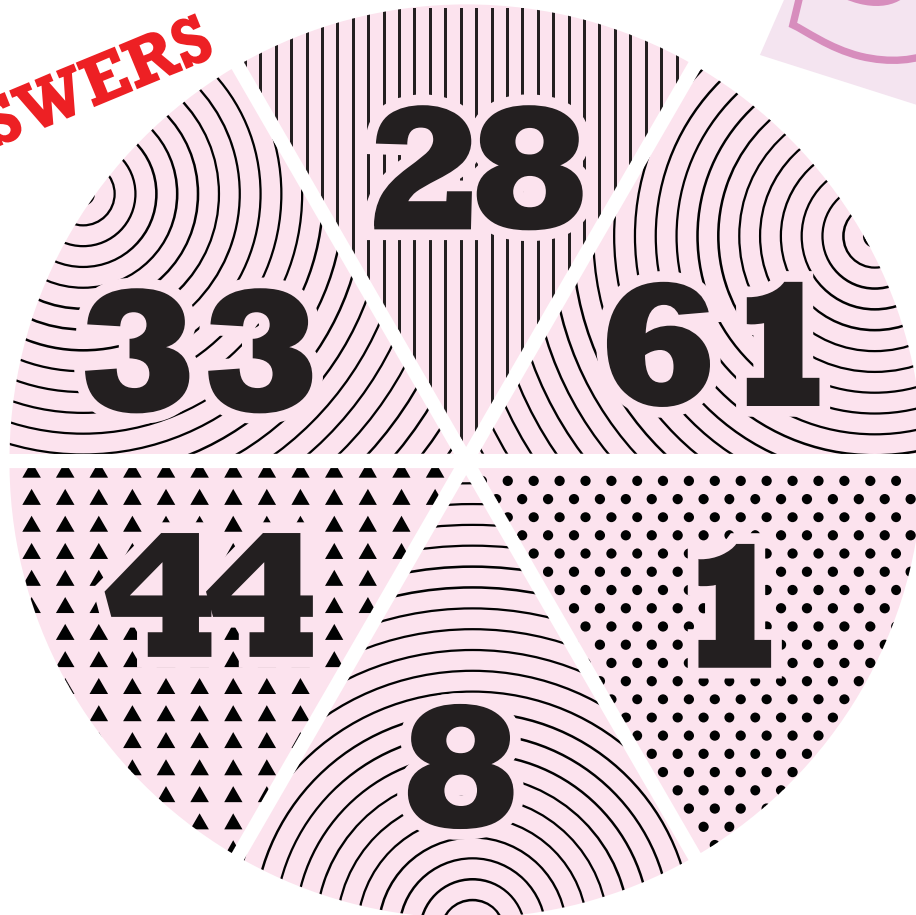
1/6

Probability Toss

Use fractions to express the probabilities of each outcome when a dart is thrown.

REMEMBER: Probability is the likelihood a given outcome will occur. It is expressed as a fraction.

3

ANSWERS

28

33

61

44

8

1

What is the probability that the next dart thrown hits a number that....

is a multiple of 11 ?

2/6

is an odd number?

3/6

is less than 10 ?

2/6

is more than 50 ?
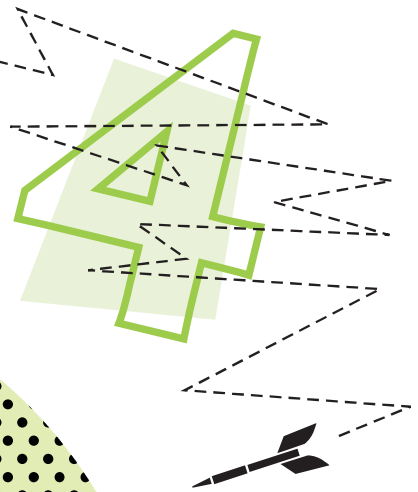
1/6

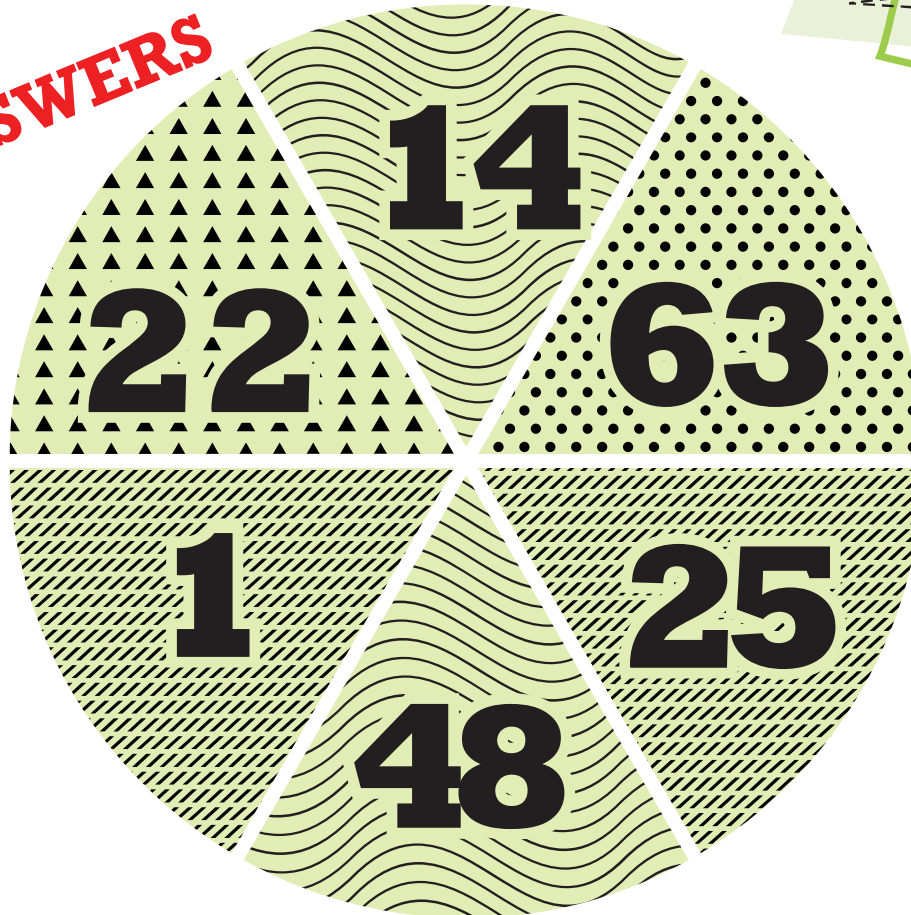has a 〰///| pattern?

3/6

has a 1 in the one's digit?

2/6

PROBABILITY TOSS

Use fractions to express the probabilities of each outcome when a dart is thrown.

REMEMBER: Probability is the likelihood a given outcome will occur. It is expressed as a fraction.

ANSWERS

What is the probability that the next dart thrown hits a number that....

has a 1 in the ten's digit?

1/6

has a ▨ pattern?

2/6

is less than 34 ?

4/6

is a multiple of 4 ?

1/6

has a ⋯ pattern?

1/6

has a 2 in the ten's digit?

2/6
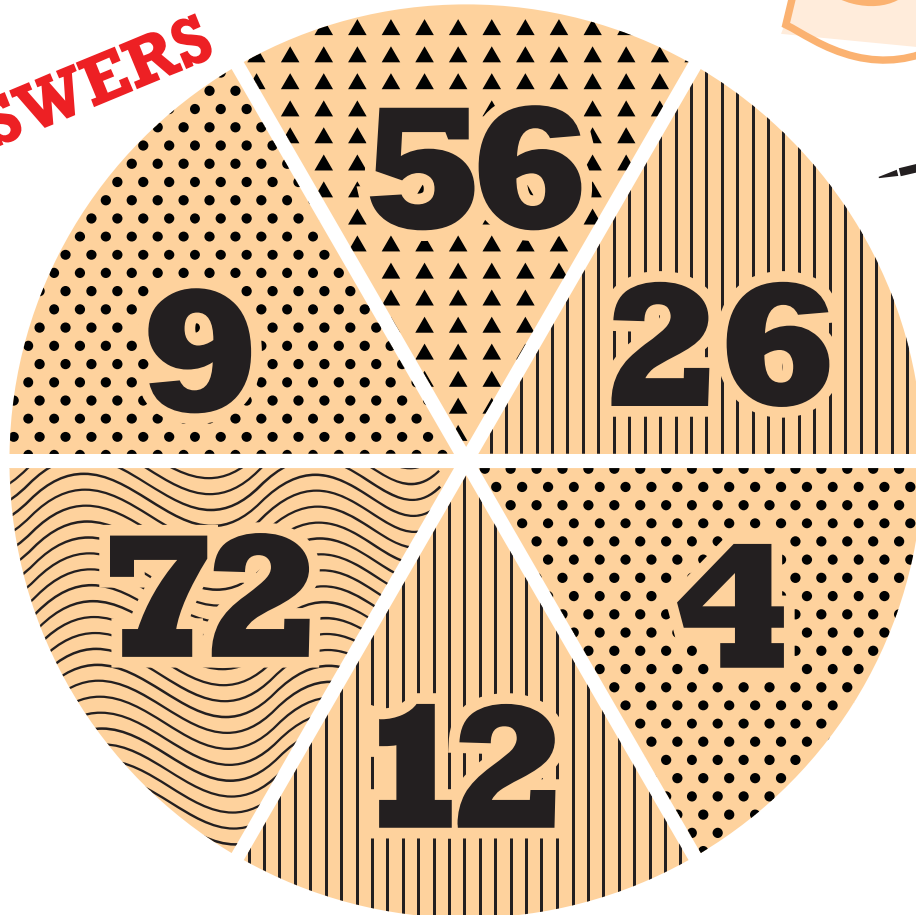
Probability Toss

Use fractions to express the probabilities of each outcome when a dart is thrown.

REMEMBER: Probability is the likelihood a given outcome will occur. It is expressed as a fraction.

ANSWERS

5

56
26
9
4
72
12

What is the probability that the next dart thrown hits a number that....

is an even number?

5/6

is a multiple of 3 ?

3/6

is a multiple of 9 ?

2/6

has a 2 in any digit?

3/6

has a ||||||||| pattern?

2/6

is greater than 50 ?

2/6
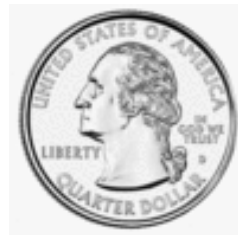
Probability Coin Toss

Answers

Find the probability of a coin toss.
Answer the questions about tossing a quarter.

What is probability? Probability is the chance that
a particular outcome will occur.

If you toss a quarter...

1.) What is the probability you get tails?

1 out of 2 or 1/2

2.) What is the probability you get heads?

1 out of 2 or 1/2

3.) You toss the quarter and get heads. What is the probability you
get heads again on a second toss?

1 out of 2 or 1/2

4.) You toss the quarter three times and get tails each time. What is
the probability you get heads the fourth time you toss it?

1 out of 2 or ½

No matter how many times you toss a coin, the probability is 1/2.

Probability

Dice Roll

ANSWERS

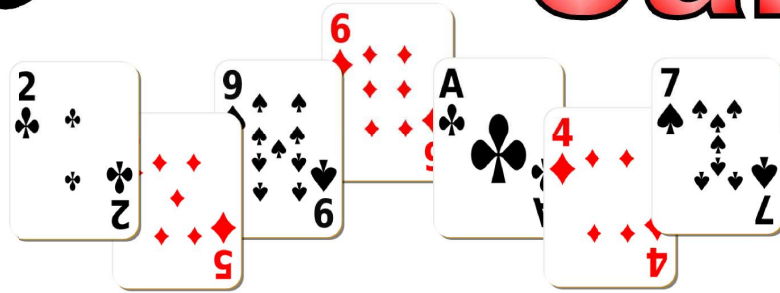Reminder: Probability is the chance that something will happen.

ANSWERS

What is the probability of...

1.) Rolling a six-sided die and getting a 2?
   1 out of 6 or 1/6

2.) Rolling a six-sided die and getting a number less than 4?
   3 out of 6 or 3/6=1/2

3.) Rolling a six-sided die and getting a number over 2?
   4 out of 6 or 4/6=2/3

4.) Rolling a six-sided die and getting a 1 or a 5?
   2 out of 6 or 2/6=1/3

5.) Rolling two six-sided dice and getting a 5?
   rolling 2 dice can result in 36 combinations (6x6)
   figure out how many times a 5 will NOT appear = 5
   multiply 5 by 5 (for each die) = 25 and then
   subtract 25 from 36 (the number of combinations) = 11
   answer = 11 out of 36 or 11/36

6.) Rolling two six-sided dice and getting a 3 and a 6?
   rolling 2 dice can result in 36 combinations (6x6)
   a 3 *and* a 6 will appear twice
   answer = 2 out of 36 or 2/36=1/18

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Probability Cards

PROBABILITY: The chance that an event will occur.
Tip: There are 52 cards in a deck. Ace is high.
(Answers)

What is the probability of picking...

1. an ace from a deck of cards?
   4 aces in a deck of 52 cards = 4/52 = 1/13

2. a number less than 4 from a deck of cards?
   4 twos and 4 threes in a deck of 52 cards = 8/52 = 2/13

3. a face card from a deck of cards?
   4 jacks, 4 queens and 4 kings in a deck of 52 cards = 12/52 = 3/13

4. a spade from a deck of cards?
   13 spades in a deck of cards = 13/52 = 1/4

5. an 8 or a 9 from a deck of cards?
   4 eights and 4 nines in a deck of 52 cards = 8/52 = 2/13

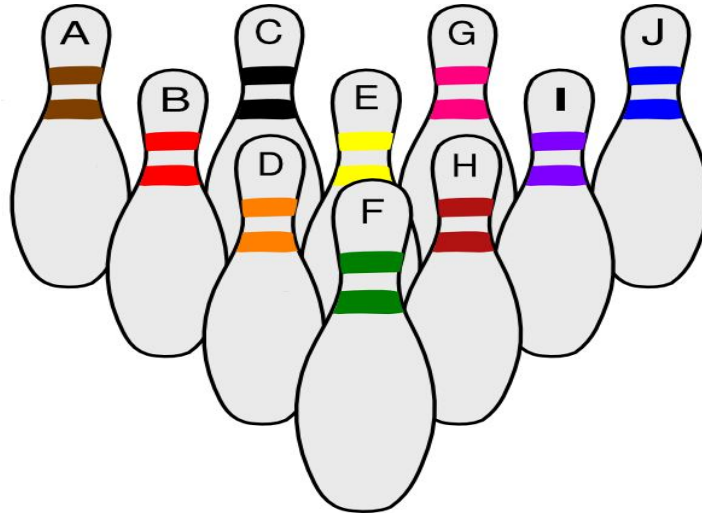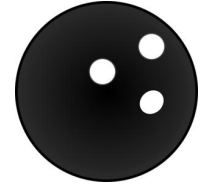**Bonus:** If two jokers are present in a deck of cards, what is the probability of picking one joker?
Jokers are in addition to the normal 52 cards, making 54 cards = 2/54 = 1/27

Probability Bowling

ANSWERS

ANSWERS

Probability is the likelihood that a particular event will occur.

Todd is a beginning bowler! If he were to knock down only one pin on his first try, what is the probability that he knocks down...

1. a blue or green pin?
   2/10 = 1/5

2. an orange pin?
   1/10

3. a yellow, brown or pink pin?
   3/10

4. a black or purple pin?
   2/10 = 1/5

5. a pin with a letter between B and F?
   3/10

6. a pin with a letter before E?
   4/10 = 2/5

7. a pin with the letter J or C?
   2/10 = 1/5

8. a pin with the letter I?
   1/10

9. a green or brown pin, or a pin with a letter after D?
   7/10 (the green pin has the letter F and is only counted once)

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