Number properties and probability

1

Cards are numbered 1 to 20. A card is picked at random. Find the probability that it is a prime number.

Primes **2, 3, 5, 7, 11, 13, 17, 19**

How many **8** **out of** **20**

Probability

Answer _____

2

A fair 12 sided dice is numbered 1 to 12. Find the probability that it lands on a factor of 12.

Factors of 12 **1, 2, 3, 4, 6, 12**

How many **out of**

Probability

Answer _____

3

A number from 1 to 30 is picked at random. Find the probability that it is a square number.

Squares

How many **out of**

Probability

Answer _____

4

A spinner has 16 equal sections numbered 10 to 25. Find the probability that it lands on a multiple of 4.

Probability

Answer _____

5

Two fair dice are rolled and the scores are added. Find the probability that the total is a prime number.

Answer _____

6

Cards are numbered 1 to 50. A card is picked at random. Find the probability that it is a factor of 36.

Answer _____

7

A number from 1 to 40 is picked at random. Find the probability that it is a multiple of 3 and a square number.

Answer _____

8

Spinner A is numbered 1 to 4 and spinner B is numbered 1 to 5. Both are spun and the numbers multiplied. Find the probability that the answer is even.

Answer _____

Number properties and probability *further practice*

9

A number from 1 to 25 is picked at random. Find the probability that it is a multiple of 6.

Answer _____

10

A raffle ticket is numbered from 1 to 40. Find the probability that the winning number is prime.

Answer _____

11

Each factor of 30 is written on its own card. A card is picked at random. Find the probability that the number on it is prime.

Answer _____

12

Two fair dice are rolled and the scores are added. Find the probability that the total is a square number.

Answer _____

13

A number from 1 to 60 is picked at random. Find the probability that it is a multiple of 4 and a multiple of 6.

Answer _____

14

A number from 20 to 40 is picked at random. Find the probability that it is prime.

Answer _____

15

Cards are numbered from 1 to n, where n is between 20 and 30. The probability of picking a square number is $\frac{1}{5}$. Find n.

Answer _____

16

Kai says the probability of picking a prime number from the numbers 1 to 10 is $\frac{5}{10}$, because 1, 2, 3, 5 and 7 are prime. Explain his mistake.

Answer _____