

Year 8 Class 28 questions

Q1

A normal six sided dice is rolled. Find the probability that it lands on 5 or 6.

Q2

Find $P(E')$ when $P(E) = 0.4$.

$P(E') =$

Q3

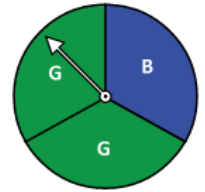
Ten cards are numbered from 1 to 10.
A card is picked at random.

Find the probability that the number on the card is at most 4.

Find the probability that the number on the card is greater than 7.

Q4

This spinner is spun once.



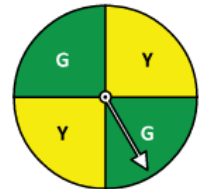
Find the probability that the spinner lands on green.

Find the probability that the spinner lands on blue.

Find the probability that the spinner lands on yellow.

Q5

This spinner is spun once.



Find the probability that the spinner lands on green.

Find the probability that the spinner lands on blue.

Find the probability that the spinner lands on yellow.

Q6

$P(\text{Bridie winning a race}) = 64.5\%$.

$P(\text{Bridie does not win the race}) =$

%

Q7

The probability that the Panthers beat the Tigers is 75.3%. What is the probability that the Panthers do not beat the tigers?

%

Q8

A raffle contains fifty purple tickets numbered 1 to 50 and 35 blue tickets numbered 1 to 35.

Find the probability of choosing a ticket that is a multiple of 5.

Find the probability of choosing a ticket that is a number greater than 30.

Q9

On his desk, Jason has 4 blue, 5 black, 2 red and 3 green textas. He chooses one texta at random.

Find the probability he chooses a green texta.

Find the probability he chooses a texta that is either red or black.

Find the probability he chooses a texta that is neither green or blue.

Q10

A group has 12 boys and 15 girls. One child is chosen at random. What is the probability that it is a girl?

Q11

A group has 7 boys and 8 girls. One child is chosen at random. What is the probability that it is a girl?

Q12

A group has 4 boys and 6 girls. One child is chosen at random. What is the probability that it is a boy?

Q13

A letter is chosen at random from the word TIBOOBURRA.

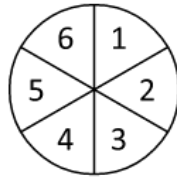
What is the probability of choosing I?

What is the probability of choosing O?

What is the probability of choosing a letter that is not a vowel (A, E, I, O or U)?

Q14

The spinner is spun once.



Find the probability that the spinner lands on an odd number.

Find the probability that the spinner lands on a number less than 3.

Find the probability that the spinner does not land on an a multiple of 3.

Q15

The spinner is spun once.



Find the probability that the spinner lands on white.

Find the probability that the spinner lands on yellow or red.

Find the probability that the spinner does not land on yellow.

Q16

A box contains ten red balls numbered 1 to 10 and ten green balls numbered 1 to 10.

Find the probability of choosing a ball that is not green.

Find the probability of choosing a ball that is red OR number 10.

Q17

A marble bag contains 12 Clearys, 6 Steelys, 14 Swirlys and 3 Tom Bowlers. Phil chooses a marble at random.

Find the probability he chooses a Cleary.

Find the probability he chooses a marble that is either a Steely or a Swirly.

Find the probability he chooses a marble that is not a Tom Bowler or a Swirly.

Q18

Twenty cards are numbered from 1 to 20. A card is chosen at random.

What is the probability that the number on the chosen card is less than 12?

What is the probability that the number on the chosen card is at least 12?

Q19

A card is picked at random from a standard deck of 52 playing cards.

Find the probability it is a black Queen.

Find the probability it is a Jack or a King.

Find the probability it is a red 3 or a black 4.

Q20

There are 25 red tickets (numbered 1 to 25) and 50 blue tickets (numbered 1 to 50) in a box. One ticket is chosen at random.

Find the probability it:

(a) is the number 24

(b) is a blue ticket

(c) is an even number

Q21

There are 30 red tickets (numbered 1 to 30) and 50 blue tickets (numbered 1 to 50) in a box. One ticket is chosen at random.

Find the probability it:

(a) is the number 30

(b) is a red ticket

(c) is an odd number

Q22

There are 35 red tickets (numbered 1 to 35) and 55 blue tickets (numbered 1 to 55) in a box. One ticket is chosen at random.

Find the probability it:

(a) is the number 40

(b) is a blue ticket

(c) is an even number

Q23

The probability of a storm on the weekend is 20%. Which statement is true?

- The probability of a storm during the week is 80%.
- The probability there will not be a storm on the weekend is 80%.
- The probability of a storm on Saturday is 20%.
- The probability of a storm on Sunday is 10%.

Q24

A bag contains red and green stars. One star is taken from the bag at random. The probability that it is red is $\frac{2}{7}$.

What is the probability that it is green?

If there are 21 stars in the bag, how many of them are red?

Q25

A lotto draw contains 55 red balls numbered 1 - 55 and 25 green balls numbered 1 - 25. One ticket is chosen at random.

Find the probability that it has the number 60 on it.

Find the probability that it has a number that is a multiple of 5 on it.

Find the probability that it has a number which is not a multiple of 5 on it.

Q26

Twenty cards are numbered from 1 to 20. A card is chosen at random.

What is the probability that the number on the chosen card is a multiple of 10?

What is the probability that the number on the chosen card is NOT a multiple of 10?

Q27

A raffle contains fifty purple tickets numbered 1 to 50 and 35 blue tickets numbered 1 to 35.

Find the probability of choosing a ticket that is blue and a multiple of 5.

Find the probability of choosing a ticket that is purple OR a multiple of 5.

Q28

A letter is chosen at random from the word CUNNAMULLA.

What is the probability of choosing L?

What is the probability of choosing a vowel?

What is the probability of choosing an N or an M?

Q29

A letter is chosen at random from the word GOONDIWINDI.

What is the probability of choosing O?

What is the probability of choosing a G or a D?

What is the probability of choosing a letter that is not an O or an I?

Q30

A letter is chosen at random from the word
KOORAWATHA.

What is the probability of choosing A?

$$\frac{\boxed{}}{\boxed{}}$$

What is the probability of choosing a letter
that is not W, T or H?

$$\frac{\boxed{}}{\boxed{}}$$

What is the probability of choosing a letter
that is not a vowel (A,E,I,O or U)?

$$\frac{\boxed{}}{\boxed{}}$$
