Year 8 Class 28 questions

Q1

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

$\frac{\square}{\square}$ $\frac{1}{3}$

Q2

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

P(E') = $\square$ 0.6

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.

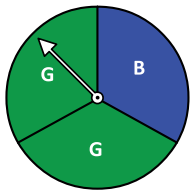
$\frac{\square}{\square}$ $\frac{2}{5}$

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

$\frac{\square}{\square}$ $\frac{3}{10}$

Q4

This spinner is spun once.



Find the probability that the spinner lands on green.

$\frac{\square}{\square}$ $\frac{2}{3}$

Find the probability that the spinner lands on blue.

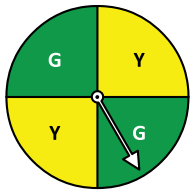
$\frac{\square}{\square}$ $\frac{1}{3}$

Find the probability that the spinner lands on yellow.

$\square$ 0

Q5

This spinner is spun once.



Find the probability that the spinner lands on green.

$\frac{\square}{\square}$ $\frac{1}{2}$

Find the probability that the spinner lands on blue.

$\square$ 0

Find the probability that the spinner lands on yellow.

$\frac{\square}{\square}$ $\frac{1}{2}$

Q6

P(Bridie winning a race) = 64.5%.
P(Bridie does not win the race) =

$\square$ % 35.5%

Q7

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

$\square$ % 24.7%

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.

$\frac{\square}{\square}$ $\frac{1}{5}$

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

$\frac{\square}{\square}$ $\frac{5}{17}$

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.

$\frac{\square}{\square}$ $\frac{3}{14}$

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

$\frac{\square}{\square}$ $\frac{1}{2}$

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

$\frac{\square}{\square}$ $\frac{1}{2}$

Q10

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

$\frac{\square}{\square}$ $\frac{5}{9}$

Q11

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

$\frac{\square}{\square}$ $\frac{8}{15}$

Q12

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

$\frac{\square}{\square}$ $\frac{2}{5}$

Q13

A letter is chosen at random from the word TIBOOBURRA.

What is the probability of choosing I?

$\frac{\square}{\square}$ $\frac{1}{10}$

What is the probability of choosing O?

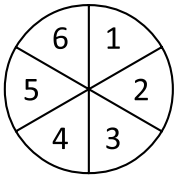
$\frac{\square}{\square}$ $\frac{1}{5}$

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

$\frac{\square}{\square}$ $\frac{1}{2}$

Q14

The spinner is spun once.



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

$\frac{\square}{\square}$ $\frac{1}{2}$

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

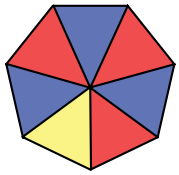
$\frac{\square}{\square}$ $\frac{1}{3}$

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

$\frac{\square}{\square}$ $\frac{2}{3}$

Q15

The spinner is spun once.



Find the probability that the spinner lands on white.

$\square$ 0

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

$\frac{\square}{\square}$ $\frac{4}{7}$

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

$\frac{\square}{\square}$ $\frac{6}{7}$

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.

$\frac{\square}{\square}$ $\frac{1}{2}$

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

$\frac{\square}{\square}$ $\frac{11}{20}$

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.

$\frac{\square}{\square}$ $\frac{12}{35}$

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

$\frac{\square}{\square}$ $\frac{4}{7}$

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

$\frac{\square}{\square}$ $\frac{18}{35}$

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?

$\frac{\square}{\square}$ $\frac{11}{20}$

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

$\frac{\square}{\square}$ $\frac{9}{20}$

Q19

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

Find the probability it is a black Queen.

$\frac{\square}{\square}$ $\frac{1}{26}$

Find the probability it is a Jack or a King.

$\frac{\square}{\square}$ $\frac{2}{13}$

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

$\frac{\square}{\square}$ $\frac{1}{13}$

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:

is the number 24 $\frac{\square}{\square}$ $\frac{2}{75}$

is a blue ticket $\frac{\square}{\square}$ $\frac{2}{3}$

is an even number $\frac{\square}{\square}$ $\frac{37}{75}$

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:

is the number 30 $\frac{\square}{\square}$ $\frac{1}{40}$

is a red ticket $\frac{\square}{\square}$ $\frac{3}{8}$

is an odd number $\frac{\square}{\square}$ $\frac{1}{2}$

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:

is the number 40 $\frac{\square}{\square}$ $\frac{1}{90}$

is a blue ticket $\frac{\square}{\square}$ $\frac{11}{18}$

is an even number $\frac{\square}{\square}$ $\frac{22}{45}$

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?

$\frac{\square}{\square}$ $\frac{5}{7}$

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

$\square$ 6

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.

$\square$ 0

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

$\frac{\square}{\square}$ $\frac{1}{5}$

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

$\frac{\square}{\square}$ $\frac{4}{5}$

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?

$\frac{\square}{\square}$ $\frac{1}{10}$

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

$\frac{\square}{\square}$ $\frac{9}{10}$

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.

$\frac{\square}{\square}$ $\frac{7}{85}$

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

$\frac{\square}{\square}$ $\frac{57}{85}$

Q28

A letter is chosen at random from the word CUNNAMULLA.

What is the probability of choosing L?

$\frac{\square}{\square}$ $\frac{1}{5}$

What is the probability of choosing a vowel?

$\frac{\square}{\square}$ $\frac{2}{5}$

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

$\frac{\square}{\square}$ $\frac{3}{10}$

Q29

A letter is chosen at random from the word GOONDIWINDI.

What is the probability of choosing O?

$\frac{\square}{\square}$ $\frac{2}{11}$

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

$\frac{\square}{\square}$ $\frac{3}{11}$

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

$\frac{\square}{\square}$ $\frac{6}{11}$

Q30

A letter is chosen at random from the word KOORAWATHA.

What is the probability of choosing A?

$\frac{\square}{\square}$ $\frac{3}{10}$

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

$\frac{\square}{\square}$ $\frac{7}{10}$

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

$\frac{\square}{\square}$ $\frac{1}{2}$