

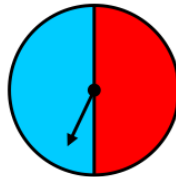
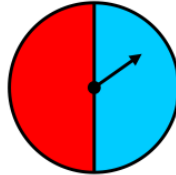
Year 6 Transition Data Work - due

Question 1 - (3 marks available)

Arya has two spinners, as shown in the diagram.

- a) Fill in the table to show all of the possible outcomes when both spinners are spun.
The first one is done for you.

First spinner	Second spinner
red	red
red	
	blue



- b) Arya spins both spinners.
What is the probability that Arya gets blue on both spinners?
Give your answer as a fraction.

Question 2 - (3 marks available)

A coin is flipped and a normal dice is rolled.

- a) How many possible outcomes are there?



- b) What is the probability of getting a tail and a five?
c) What is the probability of getting a number less than five and a head?

Question 3 - (1 marks available)

A bag of sweets contains only two different flavours - strawberry and orange.

The probability that a sweet is strawberry flavour is 0.8

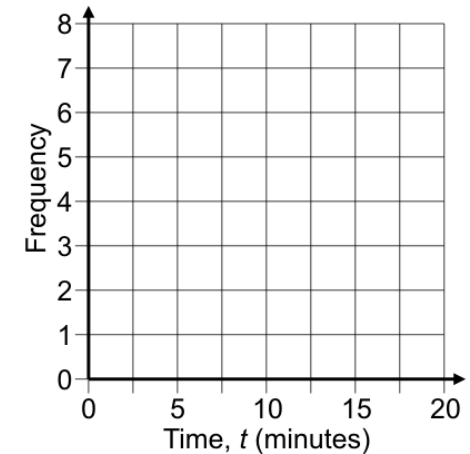
What is the probability that a sweet is orange flavour?

Question 4 - (4 marks available)

The times taken by 25 students to complete a worksheet are shown.

Time, t minutes	Frequency
$0 < t \leq 5$	7
$5 < t \leq 10$	8
$10 < t \leq 15$	6
$15 < t \leq 20$	4

Draw a frequency diagram for the data.



Question 5 - (3 marks available)

Here is a list of numbers:

3 6 9 7 4 6 7 0 7

Find:

- a) the median
- b) the range
- c) the mode

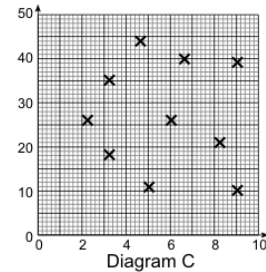
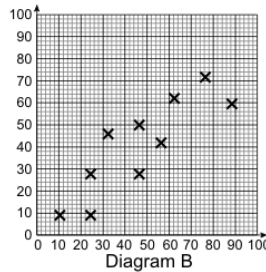
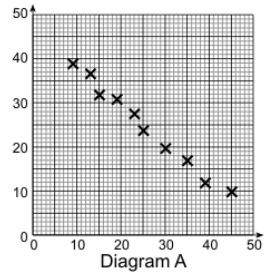
Question 6 - (2 marks available)

Find the mean of the following numbers:

7 21 2 17 3 13 7 4 9 7 9

Question 7 - (3 marks available)

Here are 3 scatter diagrams:

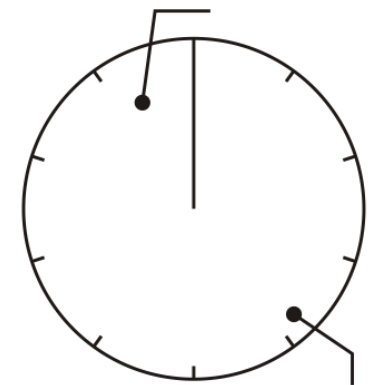


- a) What type of correlation is shown in diagram A?
- b) What type of correlation is shown in diagram B?
- c) What type of correlation is shown in diagram C?

Question 8 - (4 marks available)

The table shows the favourite colour of 100 people.

Colour	Frequency	Angle in °
Red	30	
Blue	10	
Green	50	
Yellow	10	



Complete the table and draw a pie chart to represent this information.

Note: Please draw your pie chart in a 'clockwise' direction from the line already drawn and follow the order from the table (Red, then Blue etc...).