<u>AQA - Tabulation and Representation of data – GCSE Statistics – 2021</u>

 June/2021/Paper 1F/No

Jack is wondering whether he gets value for money from his subscription to a sports channel.

He records the number of live football matches he watches for each of the 40 weeks in the season.

Some of his results are shown in the table.

Number of matches watched in a week		Frequency
0	III	3
1	 	
2	 	18
3		7
4	IIII	4

(a)		Complete the table by filling in the three empty cells correctly.	[3 marks]
(b)		Jack chooses one of the 40 weeks at random.	
(b)	(i)	What is the probability he chooses a week in which he watched five matches?	[1 mark]
		Answer	
(b)	(ii)	What is the probability he chooses a week in which he watched exactly two ma	atches? [2 marks]

Answer

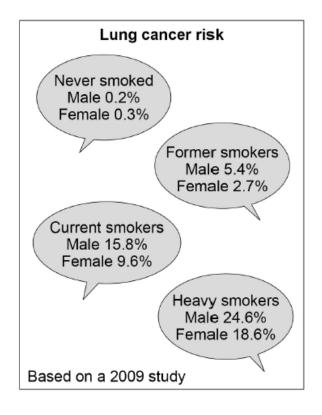
(b) (iii) _W ∣	hat is the probability he	e chooses a week in which he watched at least th i	ree matches [1 mai
_			
	Answe	r	
2. June/2021/P	aper_1F/No.6		
Ror	nnie and Lewis are loo	king for new cushions for their living room.	
		each cushion they like.	
The	pictogram shows son	ne of this information.	
	Red		
	Brown		
	White	00005	
	Multi-coloured		
	Key: represen	nts 4 cushions	
(a) Hov	w many more brown c	ushions than red cushions do they like?	[2 mark
_			
	Answer		

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(b)		They liked 10 different multi-coloured cushions.	
		Complete the pictogram to show this information.	[2 marks]
(c)		Assume that they decide to buy one of the cushions represented in the pictogram	am.
(c)	(i)	What is the probability that they buy a white cushion?	[3 marks]
(c)	(ii)	Answer What other assumption did you have to make to answer part (c)(i) ?	[1 mark]

3. June/2021/Paper_1H/No.7

This picture gives the risk of getting lung cancer and how smoking changes that risk.



(a)	How many out of every 1000 women who have never smoked are expected to get lung cancer?		
		[2 marks]	
	Answer		

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	imes greater is the ris npared with a man wh		a heavy
	.,		[2 mar
	Answer		
	asons why the picture		estimate tl
risk of lung	ancer now.		[2 ma
1			_

4. June/2021/Paper_2F/No.2

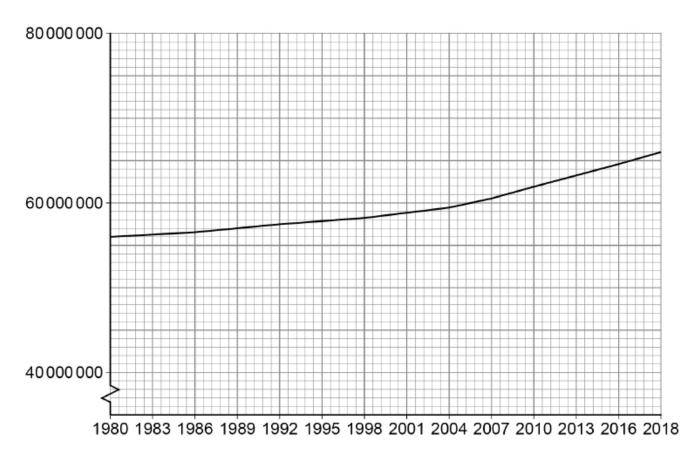
Which of these is **not** a type of statistical experiment? Circle your answer.

[1 mark]

field classroom laboratory natural

5. June/2021/Paper_2F/No.5

The graph shows the UK population from 1980 to 2018.



Source: ONS

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(a)	What was the UK population in 2018?	[1 mark]
	Answer	
(b)	Describe the general trend in the UK population during these years.	[1 mark]
(c)	In which year did the UK population reach 60 million?	[1 mark]
	Answer	

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For people who voted in the 2019 General Election, the graph shows the percentage of votes for the three main parties for different age groups.

This graph has been removed due to third-party copyright restrictions.

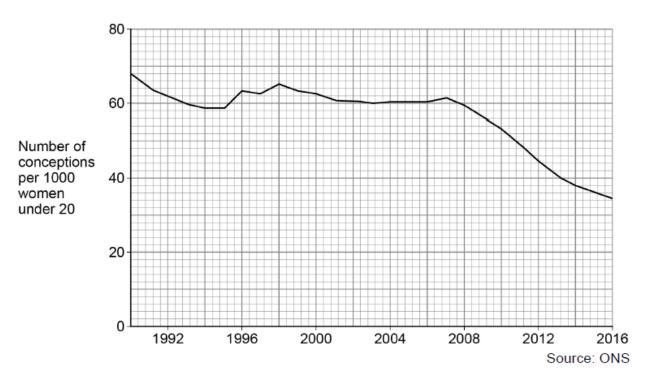
(a)	What percentage of voters aged 25-34 voted for the Labour Party?	[1 mark]
	Answer %	
(b)	Which party had the most similar percentage values across the age groups?	[1 mark]
	Answer	

(C)		Kez says,	
		"More people in the 55-64 age group voted Conservative than in the 45-54 age	group."
(c)	(i)	Give a reason why Kez might be correct.	[1 mark
(c)	(ii)	Give a reason why Ke z could be wrong.	[1 mark
(d)		Diane says the graph must be wrong as each set of three bars does not add up Is Diane correct? Tick (✓) a box.	to 100%.
		Yes No	
		Give a reason for your answer.	[1 mark

7. June/2021/Paper_2F/No.14

The graph shows the number of conceptions per 1000 women **under 20** in England and Wales.

A conception is when a woman becomes pregnant.



(a) (i) Make two comments about the patterns in the data.

[2 marks]

Comment 1		
Comment 2		
2011111121112		

(a) (ii) Give one possible reason for the overall trend in the data.

[1 mark]

Less than 5% of women under 20 became pregnant in 2012	Definitely correct
There were fewer than 40 babies born to women under 20 in 2016	Probably correct
Fewer women under 21 became pregnant in 2016 compared to 1992	Definitely incorre

8. June/2021/Paper 2H/No.4

Which of these is **not** a characteristic of the Normal distribution?

Circle the letter of your answer.

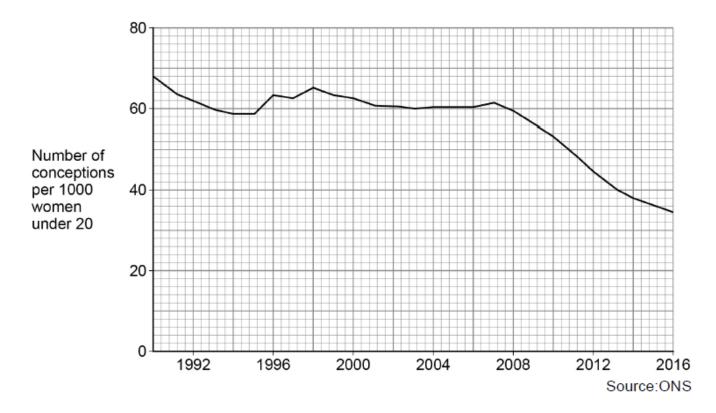
[1 mark]

- A The distribution is symmetric
- B The distribution is bell-shaped
- C mean = median = mode
- D mean = standard deviation

9. June/2021/Paper_2H/No.7

The graph shows the number of conceptions per 1000 women **under 20** in England and Wales.

A conception is when a woman becomes pregnant.



(a)	(i)) Make two comments about the patterns in the data.		
		Comment 1		
		Comment 2		
(a)	(ii)	Give one possible reason for the		[1 mark
(b)		Draw lines to connect the state	ments with whether they are	e likely to be correct or not. [2 marks]
		Less than 5% of women under 20 became pregnant in 2012		Definitely correct
		There were fewer than 40 babies born to women under 20 in 2016		Probably correct
		Fewer women under 21 became pregnant in 2016 compared to 1992		Definitely incorrect