

Statistics GCSE

Paper 2

Edexcel Foundation - 2026

Foundation Tier

Variant 5

1ST0/2F

Mark scheme

Visit our website for tutorials on each question.

www.statsgcse.com

Question	Mark Scheme	Mark
1 (a)	[1 mark] unlikely	1

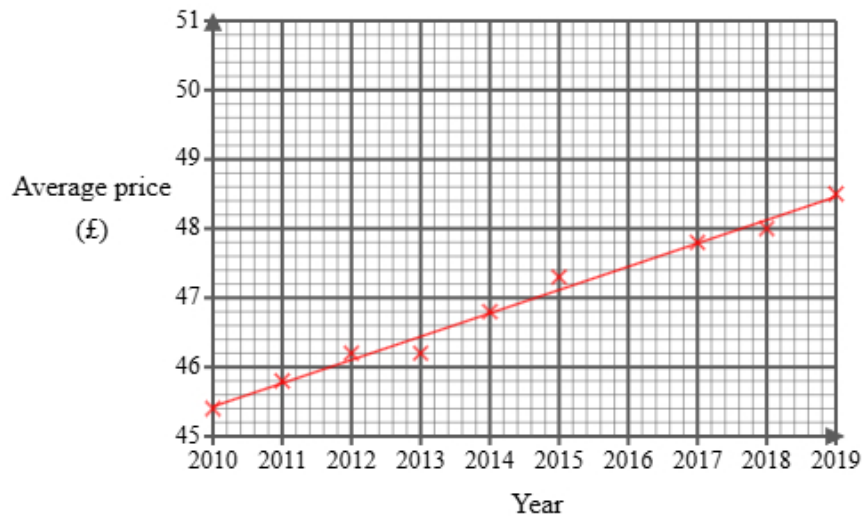
Question	Mark Scheme	Mark
1 (b)	[1 mark] certain	1

Question	Mark Scheme	Mark
1 (c)	[1 mark] B	1

Question	Mark Scheme	Mark
1 (d)	[1 mark] F	1

Question	Mark Scheme	Mark
<p>2 (a)</p>	<p>(part i) [2 marks] all three points plotted correctly OR [1 mark] at least one point plotted correctly</p> <p>(part ii) [1 mark] Straight trend line drawn</p> <p>(part iii) [1 mark] increasing/upward/rising (accept positive if without 'correlation')</p>	<p>4</p>


Question 2 (a) model answer



Question	Mark Scheme	Mark
<p>2 (b)</p>	<p>[1 mark] increases per year (ignore figures)</p>	<p>1</p>

Question	Mark Scheme	Mark
2 (c)	<p>[2 marks] correct reason (does not start from zero/changes exaggerated) and decision (the graph is misleading)</p> <p>OR</p> <p>[1 mark] correct reason</p>	2

Question	Mark Scheme	Mark
2 (d)	<p>[3 marks] 2016 is reliable because it is within the data and 2020 is not reliable because it is outside the data</p> <p>OR</p> <p>[2 marks] 2016 is reliable because it is within the data or 2020 is not reliable because it is outside the data</p> <p>OR</p> <p>[1 mark] 2016 is reliable and 2020 is not reliable</p>	3

Question	Mark Scheme	Mark
3 (a)	<div data-bbox="272 1395 1134 1485" style="border: 1px solid black; padding: 5px; display: inline-block;"> Thursday  </div>	1

Question	Mark Scheme	Mark
3 (b)	[1 mark] Demonstrate an understanding that it is hard to use the key.	1

Question 3 (b) model answer

Monday shows 16 loaves of bread. This would be very difficult to show because 16 has a remainder 1 when divided by 5.

Question	Mark Scheme	Mark
4 (a)	[1 mark] Correct reason.	1

Question 4 (a) model answer

'Married/in a CP' has the largest sector.

Question	Mark Scheme	Mark
4 (b)	<p>[1 mark] Finding angle of 'Never married/in a CP' is 122°</p> $\frac{137}{360} \times 60$ <p>[1 mark] 23 million</p>	2

Question	Mark Scheme	Mark
5 (a)	[1 mark] game genre	1

Question	Mark Scheme	Mark
5 (b)	[1 mark] number of players	1

Question	Mark Scheme	Mark
5 (c)	[2 marks] random starting point between 1 and 5 and select every 5th person OR [1 mark] random starting point between 1 and 5 or select every 5th person or both points with missing/incorrect numbers	2

Question	Mark Scheme	Mark
6 (a)	[1 mark] all the students in Ava's school	1

Question	Mark Scheme	Mark
6 (b)	[1 mark] correct definition of convenience or opportunity sampling (sampling first people you see, easiest to access, closest to you, etc)	1

Question	Mark Scheme	Mark
6 (c)	[1 mark] correct disadvantage of convenience sampling (not representative, could be biased)	1

Question	Mark Scheme	Mark
6 (d)	[1 mark for each] maximum 2 marks + easier to analyse responses, create graphs, identify the most popular + there are too few options + students might select more than one option. + students may not be able to select any of the options + “other” should be an option	2

Question 6 (d) model answer

It will make it easy for Ava to analyse the data. There are too few options.

Question	Mark Scheme	Mark
6 (e)	[2 marks] not suitable and the data is qualitative OR [1 mark] not suitable with attempt at reason or the data is qualitative	2

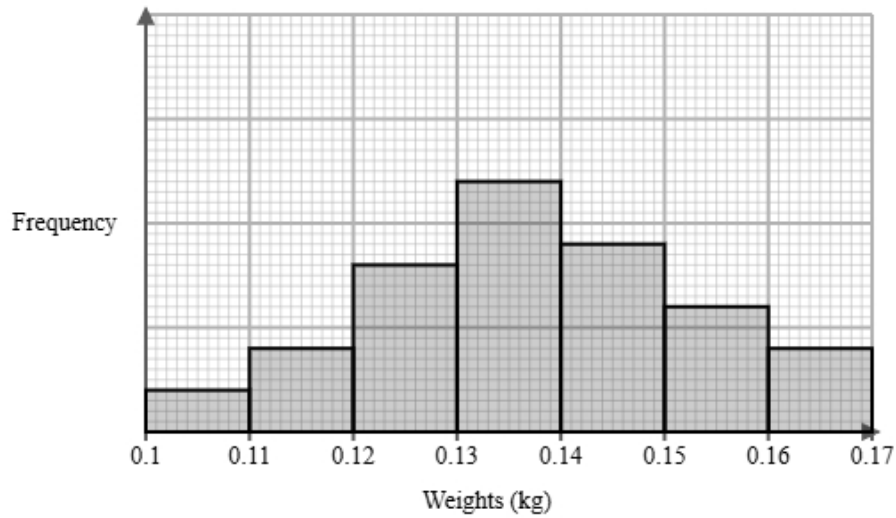
Question	Mark Scheme	Mark
7 (a)	[1 mark] ordinal	1

Question	Mark Scheme	Mark
7 (b)	[1 mark] number to all the people [1 mark] select 20 unique numbers in range [1 mark] select people with corresponding numbers	3

Question	Mark Scheme	Mark
8 (a)	[1 mark] 6 and 4 OR [1 mark] 6 or 4 or evidence of correct scale of frequency axis	2

Question	Mark Scheme	Mark
8 (b)	[2 marks] both bars at correct heights (24 and 18 little squares) OR [1 mark] one correct bar or bars using the scale they have shown	2

Question 8 (b) model answer



Question	Mark Scheme	Mark
8 (c)	[1 mark] negative or negative skew (do not accept negative correlation) [1 mark] correct interpretation (weights above the median have a greater spread or the mean is smaller than the median)	2

Question	Mark Scheme	Mark
8 (d)	[1 mark] correct working to find the mean [1 mark] 127.6 g (assume correct working) [1 mark] Omar is incorrect [1 mark] correct limitation of conclusion (difference may be specific to a different pet shop or mean are in same class interval or we do not know the original data)	4

Question 8 (d) model answer

weight w (grams)	Frequency	Midpoint	fw
$80 < w \leq 100$	1	90	90
$100 < w \leq 120$	9	110	990
$120 < w \leq 140$	17	130	2210
$140 < w \leq 160$	7	150	1050
	$\sum f = 34$		$\sum fw = 4340$

$$\sum f = 34$$

$$\sum fw = 4340$$

$$\frac{\sum fw}{\sum f} = \frac{4340}{34}$$

$$= 127.647 \dots$$

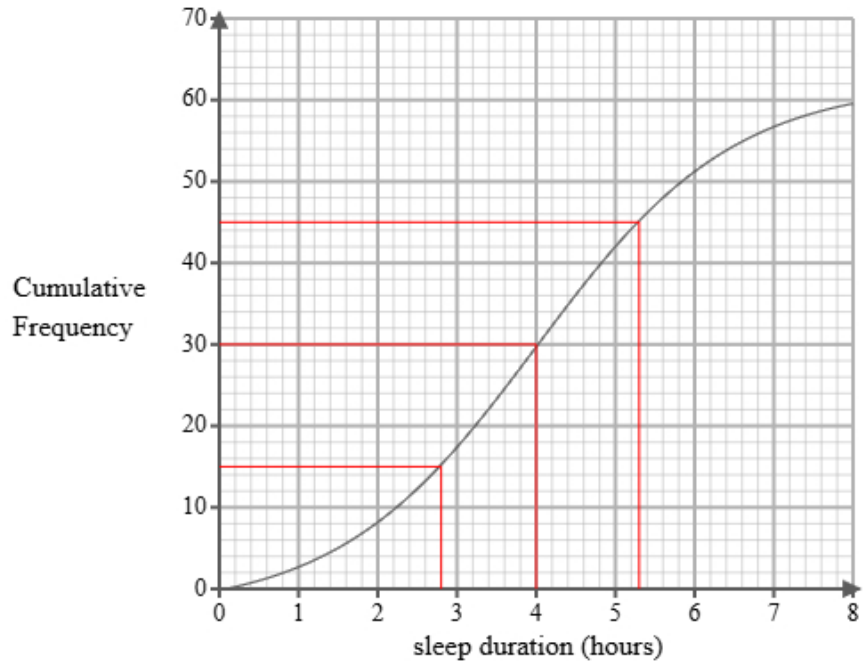
$$= 127.6 \text{ g (1 d.p)}$$

Omar is incorrect

We cannot be sure because both means are in the same class interval.

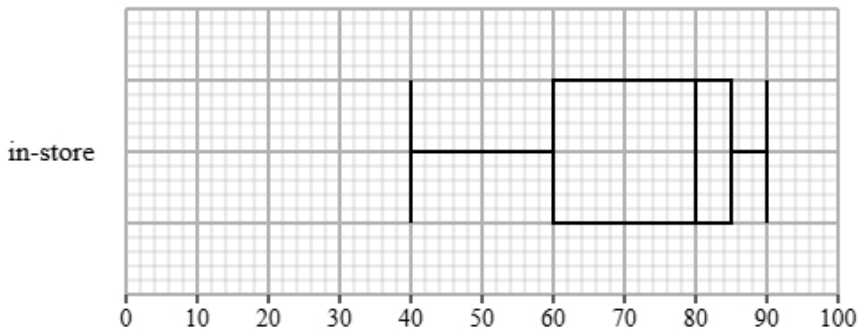
Question	Mark Scheme	Mark
9	<p>[2 marks] $Q_1 = 2.8$ and $Q_2 = 4$ and $Q_3 = 5.3$ (accept ± 0.1 with evidence on graph)</p> <p>OR</p> <p>[1 mark] one value correct</p>	2

Question 9 model answer



Question	Mark Scheme	Mark
10 (a)	[1 mark] A box with two whiskers drawn with at least 3 correct values [1 mark] Fully correct	2

Question 10 (a) model answer



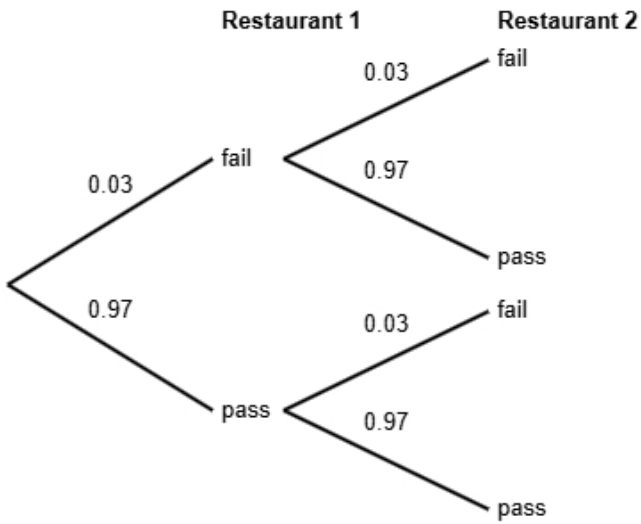
Question	Mark Scheme	Mark
10 (b)	[1 mark] Correct comparison of the medians [1 mark] Correct comparison of the IQR/range [1 mark] Correct comparison of the skews [1 mark] Correct contextual interpretation comparing medians or IQR/ranges or skew	4

Question 10 (b) model answer

The median satisfaction scores for online customers is lower than in-store customers. The IQR for the satisfaction scores of the online customers is greater than in-store customers. The skew for the satisfaction scores of the online customers is symmetrical and the skew for the in-store customers is negative. The online customers on average have lower satisfaction scores than the in-store customers.

Question	Mark Scheme	Mark
11 (a)	[1 mark] 0.97 in correct position for Restaurant 1. [1 mark] 0.03, 0.97, 0.03 and 0.97 in correct positions for Restaurant 2 .	2

Question 11 (a) model answer



Question	Mark Scheme	Mark
11 (b)	[1 mark] 0.9409	2

Question	Mark Scheme	Mark
11 (c)	[1 mark] for one correct product using their '0.97' or subtracting a not-wanted product from 1 [1 mark] for 0.0582 or 5.82% [1 mark] for 'correct' ft probability and conclusion based on their probability	3

Question 11 (c) model answer

$$P(\text{fail AND pass}) = 0.03 \times 0.97$$

$$= 0.0291$$

$$P(\text{exactly one restaurant outcome is fail}) = 0.0291 \times 2$$

$$= 0.0582$$

$$0.0582 = 5.82\%$$

$$5.82\% < 6\%$$

The probability that exactly one restaurant outcome is fail is less than 6%, so Emma is correct.

Question	Mark Scheme	Mark
12 (a)	[1 mark] 3 desks has the highest frequency.	1

Question	Mark Scheme	Mark
12 (b)	<p>[3 marks] all values correct (6, 11, 37, 20, 11)</p> <p>OR</p> <p>[2 marks] one value correct</p> <p>OR</p> <p>[1 mark] evidence of correct calculation (e.g. $\frac{1}{20}$ or 20 or $\frac{1700}{85}$ or $\frac{85}{1700}$)</p>	3

Question 12 (b) model answer

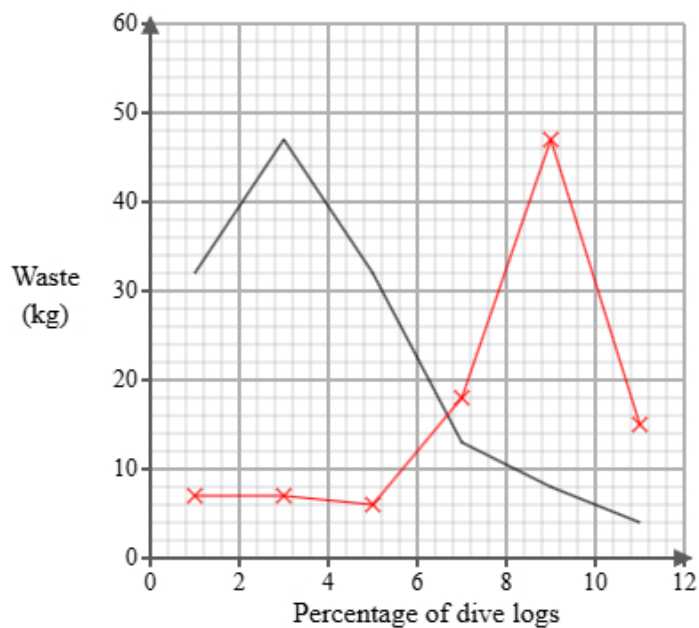
$$\frac{1700}{85} = 20$$

number of desks	number of offices in the sample
1	$120 \div 20 = 6$
2	$220 \div 20 = 11$
3	$740 \div 20 = 37$
4	$400 \div 20 = 20$
5 or more	$220 \div 20 = 11$

Question	Mark Scheme	Mark
12 (c)	<p>[1 mark] Use a sampling frame for each strata</p> <p>[1 mark] select office spaces randomly</p> <p>[1 mark] description of method of random selection (how random numbers can be used)</p>	3

Question	Mark Scheme	Mark
13	<p>Part i</p> <p>[2 marks] fully correct frequency polygon joined with straight lines</p> <p>OR</p> <p>[1 mark] correct points not joined with straight lines or 3 correct points joined with straight lines</p> <p>Part ii</p> <p>[1 mark] the distribution of metal waste collected by divers is positively skewed whereas the distribution of plastic waste collected by divers is negatively skewed</p> <p>[1 mark] this means that the metal waste collected by divers was mainly at the lower end of the distribution and the plastic waste collected by divers was mainly at the upper end of the distribution</p>	4

Question 13 model answer



Question	Mark Scheme	Mark
14	<p>[1 mark] $\frac{70}{65} \times 100$ or $\frac{110}{65} \times 100$ or $65 \times \frac{130}{100}$ or $65 \times \frac{160}{100}$</p> <p>[1 mark] 107.69... or 84.5</p> <p>[1 mark] 169.23... or 104</p> <p>[1 mark] between Jan 1990 and Jan 2000 the change in price was less than the CPI</p> <p>[1 mark] between Jan 1990 and Jan 2010 the change in price was more than the CPI</p>	5

Question	Mark Scheme	Mark
15	<p>[1 mark each] maximum 5 marks</p> <ul style="list-style-type: none"> + both boats decrease in resale price as the engine hours used increase + brand A reduces in resale price by £200 per engine hour + brand B reduces in resale price by £150 per engine hour + brand A reduces in resale price more per engine hour than brand B + brand B has a greater initial resale price + a comparison between the brands for a specific engine hours used 	5