This test is divided into non-calculator (30 minutes) and calculator (20 minutes) sections which can be delivered separately.

The following marks are awarded for each question.

B	Unconditional accuracy mark.
M	Method mark – the correct method must be shown, but there may be an arithmetic error; the sight of the value given in brackets implies the award of the method mark.
A	Accuracy mark – unless the question specifies that working **must** be shown, then the sight of the correct answer implies the award of full marks (unless the answer clearly comes from incorrect working).
C	Communication mark.
P	Process mark – to show the correct process for problem solving. Any other process of a similar standard to achieve an accurate result is acceptable to achieve this mark.
FT	Incorrect values may be **followed through** from one step to the next, **provided** that the correct method is seen in each step and the only errors are arithmetic. This is shown in mark schemes by putting a number in inverted commas.
OE	Or equivalent answer mark.

Non-Calculator			
Q	**Answer**	**Mark**	**Comment**
1a	Completed bar	B1	slightly nearer to 25 than 30
1b	Mrs Liu	B1	
1c	Mrs Gray & Miss Dior	B1	both needed
1d	5 (km)	B1	
3	Not affected by extreme − median Every value makes − mean Can be used with non − mode	B2	B2 for all correct; B1 for two correct

5	All the same age or all similar tastes	B1	OE if biased need reason why
	Sample too small	B1	
7	$(5x + 10y) \div 15$	M1	for $5x$ or $10y$ or $\div 15$, e.g. $(x + y) \div 15$ accept $\frac{(x+2y)}{3}$
		A1	

Calculator			
9a	7	B1	
9b	8	B1	
11a	2	B1	
11b	1	B1	
11c	118	M1	$1 \times 17 + 2 \times 14 + 3 \times 6 + 4 \times 10 + 5 \times 3$ 17 + 28 + 18 + 40 + 15 may be products by table – award for four correct products with intention to add
		A1	FT (dep on M1)
11d	2.36	M1	"118" ÷ 50 their 118 but must be from correct working
		A1	
11e	4	M1	5 − 1
		A1	

Calculator			
13a	$0 < m \leqslant 20$ (minutes)	B1	accept 0 – 20, etc.
13b	$20 < m \leqslant 40$ (minutes)	M1	20 or 20.5 mentioned. accept 20 – 40 OE
		A1	
13c	41.5	M1	M1 for at least four products – must multiply consistently by a value in the range (can be all lower/upper values) $10 \times 12 + 30 \times 9 + 50 \times 8 + 70 \times 6 + 90 \times 5$
		M1	M1 for use of mid-values with at least four correct and divide by 40 $(10 \times 12 + 30 \times 9 + 50 \times 8 + 70 \times 6 + 90 \times 5) \div 40 = 1660 \div 40$
		A1	
15	51.2857... – 51.3	M1	3×45 (= 135) or 4×56 (224)
		M1	$(3 \times 45 + 4 \times 56) \div 7$
		A1	3 significant figures or better

Non-Calculator			
Question	**Topic**	**Step**	**Mark**
1	Bar chart completing and reading from	4th	4
3	Matching up mean median & mode	4th	2
5	Sampling	6th	2
7	Combined mean in algebra	8th	2

Calculator			
9	Range	2nd	2
11	Frequency tables; range, median and mode	4th	8
13	Estimating median and mode	7th	6
15	Finding missing values	8th	3