Student Name:	
Teaching Group:	

United Learning

Mathematics 1MA1

Foundation Tier

Targeting Grade 3-4

Booklet 1 MS

Non-Calculator

Qu 2

8		15	M1 A1	For start to scaling process eg 12÷8 or 10÷8 15

Qu 3

9			Speedy Taxis with correct working	3	P1 for a process to calculate the cost with 1 firm P1 for a process to calculate the cost with all 3 firms C1 for 45, 44.5(0), 45.5(0) with supporting statement

Qu 4

10	(a)		5	B1	cao
	(b)		7	M1	starts to find number using inverse operations (oe), e.g. use of ÷2 or +3
				A1	cao
	(c)		3	M1	starts to find the number by using inverse operations with own values or algebraic expressions, e.g. use of ÷2 and +3; e.g. $2x - 3$
				A1	cao

Qu 5

11	(a)		1300	B1	cao
	(b)		4 - 5	B1	
	(c)		1.4	M1	for taking readings from graph, e.g. 0.6 or 2 or finds the difference from their readings
				A1	cao
	(d)		graph	B1	for showing a horizontal line from (13 40, 3.5) to (13 50, 3.5)
				B1	for a line that terminates at (14 15,0) and starts from (13 50, 3.5) or starts from the end of their graph so far, e.g. from (13 40, 3.5)

Qu 6

12	(a)		12 000	M1	for approximations of 40 or 300 in a product, e.g. 40 × 300 or 40 × 298 or 39 × 300
				A1	for accurate answer to their product within the range 11700 to 12000
	(b)		Overestimate plus reason	C1	ft for e.g. "overestimate since both estimates are greater than the exact values"

Qu 7

13	(a)		Diagram drawn	C1	for a key or suitable labels to identify boys and girls
				C1	for a diagram or chart set up for comparison
				C1	for correct heights for at least 4 bars dependent on a linear scale
				C1	for a fully correct diagram
	(b)		$\frac{20}{24}$	M1	for $\frac{20}{a}$ oe, where $a > 20$ or ft their diagram or $\frac{b}{24}$ oe, where $0 < b < 24$ or ft their diagram
				A1	for $\frac{20}{24}$ oe or ft their diagram

Qu 8

14	(a)		168°, 120°, 72°	M1	for correct working to find an angle (could be implied by one angle drawn correctly on the pie chart)
				A1	for all three angles drawn ±2°
				B1	(dep on M1) for correct labels (languages)
	(b)		No and reason	C1	NO and reason given e.g. "don't have actual figures for Lowry"

Qu 9

15		13.5	P1	process shown to find the area of the triangle e.g. ½ × 8 × 9 (=36)
			P1	for calculating 6 × (area) (=216)
			P1	for process shown of dividing their area of rectangle by 16 (oe)
			A1	oe

Qu 10

16	(a)		Explanation	C1	eg States over-estimated for both values
	(b)		182.7(0)	P1	for a process to find 10% of a value stated in the question eg $\frac{10}{100}$ ×5.80 (=0.58) **or** $\frac{10}{100}$ × 35 (=3.5) oe **or** 35 × 5.80 (=203), allow 30 × 5.80 (=174) **or** 35 × [reduced price]
				P1	for a process to find 90% of a value stated in the question eg 35 – "3.5" (=31.5) **or** 0.9 × 5.80 (=5.22) oe **or** $\frac{10}{100}$ × "203" (=20.3) **or** $\frac{10}{100}$ × "174" (=17.4) oe
				P1	for a complete process to find actual cost of 35 eg 0.9 ×5.80 × 35 oe
				A1	cao
					SC B2 156.6(0)

Qu 11

17			$\frac{4}{9}$	M1	for listed outcomes (allow 1 error eg omission or repeat) **or** fractions $\frac{1}{3}\times\frac{2}{3}+\frac{2}{3}\times\frac{1}{3}$
				A1	for $\frac{4}{9}$ oe

Qu 12

18		125	P1	for process to find 7/20 of 500 (=175) or 7/20 + 4/10 (=3/4)
			P1	for process to find 40% of 500 (=200) or ¼ × 500
			A1	cao