Year 7 Summer Assessment NON CALC Mark Scheme

Question	Answer	Mark	Notes
1	102	1	cao
2	534	1	cao
3	61.09	1	cao
4	452.87	1	cao
5	0.03	1	cao
6	762	M1	For a correct method shown with no more than one numerical error.
		A1	cao
7	19.98	M2	For digits 1998 seen
		(M1)	For a correct method shown with no more than one numerical error.
		3	cao
8 (a)	890	1	cao
8 (b)	0.56	1	cao
9 (a)	340	1	cao
9 (b)	450	1	cao
10	10 and 25	B2	cao
	or		
	2 and 25	B1	For listing at least four factors of 50.
11	48	M1	Missing lengths 7 or 4 seen or 2×6 (=12) or 9x4(=36) or 2×10 (=20) or 7×4 (=28)
		M1	(2×6) + (9×4) or (2×10) + (7×4) or (9×10) – (6×7) seen
		A1	cao
12 (a)	$\frac{3}{4}$	1	cao
12 (b)	Any fraction equivalent to $\frac{5}{8}$	1	cao
	2		
13 (a)	$\frac{2}{2}$	M1	For common denominator seen with at least one fraction with numerator correct.
	45	A1	oe
13 (b)	12	1	oe
13 (6)	17	1	
	1		
14	(should be) 1.25	1	Accepted answers are:
			15 minutes is 0.25
			15 minutes is ¼ (of an hour)
			1.15 is 1 hour 9 mins
			0.15 is 9 mins

15 (-)	9	D2	I
15 (a)		B2	cao
	200	B1	For $\frac{45}{1000}$ seen or any equivalent fraction
15 (b)	0.875	1	cao
16 (a)	-2, -1, 0, 1, 2		cao
10 (a)	-2, -1, 0, 1, 2	1	
16 (b)	2 < <i>x</i> ≤ 6	B2	сао
, ,		B1	For either $2 < \text{ or } 2 \le x < 6$
17 (a)	74	1	Cao
17 (b)	70	1	Correct angle, or intention to take both angles away from 180
17 (5)	Reason: angles in a triangle add to 180	1	Correct reason
18	For correctly labelled pie chart using angles	M1	For 360 ÷ 180 = 2 or ×2 seen or one angle correct.
	96°, 40°, 144° and 80°	M1	For at least two angles drawn within tolerance.
		A1	Accurately drawn pie chart with tolerance of (+/-) 2° for each angle.
19	16% 0.302 $\frac{1}{3}$ $\frac{2}{5}$	B2	cao (condone values using equivalent forms)
	3 5		
		B1	For correctly converting at least two values to a different form.
			If 1/3 converted, it must be correct to at least 2dp or better, or recurring implied.
20	9	M1	For $x - 3$ or $2x$ seen
		M1	For $x + x - 3 + 2x = 33$ or better
		A1	(Answer of 9 is awarded 3 marks) cao
21	$6x^2 - 15x$	1	сао
	3y(2y+5)	B2	cao
		B1	for $y(6y + 15)$
22	Equation Expression Formula	B2	cao
	22.17	B1	For 1 or 2 correct
	I K A I		
	$5x - 1 = 9 \qquad \checkmark$		
23	3	M1	For second $2x$ seen on diagram or for $16 + 5$
		M1	For $2x + 2x + 3x - 5 = 16$ or better
		A1	(Answer of 3 is awarded 3 marks) cao

Extension Questions

1	75	M1	For sight of 540 or (5 – 2) × 180
		M1	For [540] – 130 – 130 – 130 (= 150) Note: 540 can be any value greater than 390
		A1	cao
2	146	M1	98 × 5 (=490) or 114 × 7 (=798)
		M1	For a complete method eg "798" – " 490" -162
		A1	146 cao
3	17	M1	AB= $2x$ or DC= $2x + 4$ or 38-4
	3	M1	$x + x + 2x + 2x + 4$ or $38 - 4 \div 6$
		M1	6x + 4 = 38
		A1	$\frac{17}{3}$ oe
			3