Year 7 Assessment 2 Mark Scheme

Question	Answer	Mark	Notes
1	19	1	cao
2	7.94	1	cao
3	$\frac{3}{5}$	1	oe
4	0.06	1	oe
5	$\frac{1}{4}$ oe	1	oe
6	$\frac{7}{18}$ oe	2	M1 both fractions with a common denominator and at least one correct numerator
7(a) 7(b)	$\frac{7}{10}$ oe Shades a total of 4 squares	1 1	oe cao mark intention
8(a) 8(b)	1, 3, 5, 15 7, 14, 21, 28, 35	1 1	cao answers may be given in factor pairs cao may be given in any order
9(a) 9(b) 9(c)	450 690 0.08046	1 1 1	cao cao cao

10	$\frac{1}{\mathbf{3}} = \frac{2}{6} = \frac{\mathbf{3}}{9} = \frac{10}{\mathbf{30}} = \frac{\mathbf{8}}{24}$	2	B1 for at least two boxes correct
11(a) 11(b)	6 80	1 2	cao M1 for 200 ÷ 5 or 40 or 2 × 200 or 400
12	832	2	M1 Any appropriate method used with only one numerical error, not a place value error if using a formal method of multiplication.
13	191.4	2	M1 Digits 1914 or appropriate division method with only one numerical error. Note: Both an incorrect value and incorrect remainder within one step, is taken as one numerical error.
14	11	1	cao
15	eg, 3**4**17, 33**9**5, 339**1, 2**764 or **1**764	1	Any correct answer
16(a) 16(b) 16(c)	3 4.2 2.9	1 1 1	
17(a) 17(b)	0.125 $\frac{7}{10}$ oe	2 1	M1 for intention to divide or digits 125 oe
18(a) 18(b)	Walk 5	1 2	cao M1 9 - 4
19	Pie chart with angles: 75°, 50°, 100°, 135°	2	M1 for 360 ÷ 72 (= 5) seen. M1 for at least two angles correctly calculated 75, 50, 100, 135, **<u>or</u>** drawn (implies 2 marks) A1 For fully accurate labelled pie chart.

20(a) 20(b)	5.25 kg 4.75 kg or 4750 g	2 1	M1 1.8 kg (seen within working) or for 3450 + 1800 = 5250 A1 5.25kg cao ft 10 – their Part (a) solution
21	6	2	M1 for 2000/300 or 2/0.3 A1 6 (answer of 7 scores M1 with correct supporting working)
22	Gives a valid reason with no incorrect statement, e.g. 0.6 and 0.75 $\frac{36}{60}$ and $\frac{45}{60}$ $\frac{9}{15}$ *and* $\frac{9}{12}$	1	e.g. “the numerator has been multiplied by 3 but the denominator hasn’t” or “the numerator and denominator have been multiplied/divided by different numbers”
23	$\frac{7}{12}$	3	M1 360 – (60 + 50 + 40) or 210 M1 $\frac{"210"}{360}$ A1 cao SC1 for any fraction fully simplified SC2$\frac{5}{12}$
24	10000	1	cao
25	10.30 (am) No units necessary, but if given must be correct	3	M1 listing at least the first three multiples of 30 **or** 24 or listing the at least the next three times for either Bus **or** Bus B M1 listing at least the first three multiples of 30 **and** 24 or listing the at least the next three times for either Bus **and** Bus B SC2 120 (minutes) or 2 (hours) or 10.30pm

Extension 1.	Answer	Mark	Comment
	$\frac{41}{200}$	M1	For correct fractions over a common denominator, e.g. $\frac{26}{200}$ and $\frac{15}{200}$ e.g. $\frac{52}{-400}$ and $\frac{30}{400}$ oe OR For correct decimals, 0.075 and 0.13
		M1	For correct fractions or decimals with correct sum. e.g. $\frac{26}{200}+\frac{15}{200}$ OR $0.075+0.13$
		A1	For $\frac{41}{200}$ oe OR 0.205
Extension 2.	Answer	Mark	Comment
a	$\frac{7}{12}$	M1	for writing all fractions correctly over a common denominator e.g. $\frac{14}{24}$, $\frac{15}{24}$, $\frac{11}{24}$ **OR** for all fractions written as decimals e.g. 0.583..., 0.625, 0.458
		A1	oe
b	$\frac{1}{6}$	B1	oe
Extension 3.	Answer	Mark	Comment
a		M1	$\frac{x}{4}+\frac{2x}{4}$
	$\frac{3x}{4}$	A1	oe
b		M1	sight of $\frac{4x}{6}$
	$\frac{5x}{6}$	A1	