

**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)	$\frac{7}{10}$ oe	1	oe
7(b)	Shades a total of 4 squares	1	cao mark intention
8(a)	1, 3, 5, 15	1	cao answers may be given in factor pairs
8(b)	7, 14, 21, 28, 35	1	cao may be given in any order
9(a)	450	1	cao
9(b)	690	1	cao
9(c)	0.08046	1	cao

10	$\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{10}{30} = \frac{8}{24}$	2	B1 for at least two boxes correct
11(a)	6	1	cao
11(b)	80	2	M1 for $200 \div 5$ or 40 or $2 \times 200$ 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, 3417, 3395, 3391	1	Any correct answer
16(a)	3	1	
16(b)	4.2	1	
16(c)	2.9	1	
17(a)	0.125	2	M1 for intention to divide or digits 125
17(b)	$\frac{7}{10}$ oe	1	oe
18(a)	Walk	1	cao
18(b)	5	2	M1 9 - 4
19	Pie chart with angles: 75°, 50°, 100°, 135°	2	M1 for $360 \div 72 (= 5)$ seen.  M1 for at least two angles correctly calculated 75, 50, 100, 135, <b>or</b> drawn (implies 2 marks)  For fully accurate labelled pie chart.

20(a)	5.25 kg	2	M1 1.8 kg (seen within working) or for $3450 + 1800 = 5250$  A1 5.25kg cao
20(b)	4.75 kg or 4750 g	1	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	
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 <b>or</b> 24 or listing the at least the next three times for either Bus <b>or</b> Bus B M1 listing at least the first three multiples of 30 <b>and</b> 24 or listing the at least the next three times for either Bus <b>and</b> 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. $\frac{14}{24}$ , $\frac{15}{24}$ , $\frac{11}{24}$ <b>OR</b> 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	