WRITING A RATIO AS A FRACTION OR LINEAR FUNCTION QUESTIONS

OCR Thursday 05 November 2020- Morning (Non-Calculator) Foundation Tier

1.

| 18 | | 5.6[0] with correct working | 6 | M2 for $\left(\frac{1}{3}+\frac{2}{5}\right)\times 10$ oe

 or M1 for $\frac{1}{3}\times 10$ or $\frac{2}{5}\times 10$

 A1 for $\frac{110}{15}$ oe

 or

 M1 for $\frac{1}{3}+\frac{2}{5}$ oe

 A1 for $\frac{11}{15}$ oe

 AND

 M1 dep for *their* improper fraction/decimal/mixed number rounded up to next integer

 M1 for *their* integer multiplied by 70 or 0.7

 If 0 scored,
 SC1 for answer 5.60 or 5.6 | "Correct working" requires full evidence of M1A1 AND M1 or convincing pictorial/alternate convincing approach. For method accept equivalent decimals or percentages (to 2 sf)

 M2 could be split into $\frac{1}{3}\times 10 + \frac{2}{5}\times 10$

 The method may be shown pictorially

 For A1 eg 7⅓, accept 4 + 3⅓ oe, 733[..]% A1 implies M2

 The method may be shown pictorially

 Implies M1

 Dep on their improper fraction ≠ integer. Must show a more accurate value first, could be in two parts eg 4 + 3⅓ then 8

 This may be earned by those with wrong working then doing eg 8 x 0.7. Must see a calculation implying an integer × 70 or 0.7, could be in several parts |

OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

2.

2	a		3 : 7	1		Condone 3:7 written in one of the answer spaces
	b		2.5 or $2\frac{1}{2}$	2	B1 for 2:5 or 4:10 or 10:25 or 1:2.5 or 0.4:1 or 50 ÷ 20 seen	For B1 ratio must have colon and not "to" or comma

OCR Tuesday 6 November 2018 – Morning (Calculator) Foundation Tier

3.

| 9 | | | 15 with correct supporting working | 5 | M1 for 140 ÷ 7 soi by 20
M1 for 4 × *their* 20 and 3 × *their* 20 soi by 80 and 60
M1 for *their* 80 ÷ 5 or their 60 ÷ 4
A1 for 16 and 15

or

M1 for 140 ÷ 9 soi by 15.5
M1 for 15 × 5 and 15 × 4 soi by 75 and 60
M1 for 140 ÷ 7 soi by 20
M1 for 4 × *their* 20 and 3 × *their* 20 soi by 80 and 60

SC1 for 15 without working | Accept correct alternative methods *their* 20 must come from a division of 140

15 from incorrect working scores 0 |

OCR Sample Question Paper 2 – Morning/Afternoon (Non - Calculator) Foundation Tier

4.

| 13 | (a) | | 24 cm by 16 cm
12 cm by 8 cm | 2
1 AO1.3a
1 AO3.1c | B1 for each | Answers may be indicated on the list in the question |

| | (b) | | 50 | 3
1 AO1.3b
2 AO3.1d | M1 for $\frac{45}{9}$ or $\frac{60}{6}$

M1 for *their* '5' × *their* '10'

SC2 for 42 or for area calculation leading to incorrect answer | |