### RATIO

#### Pearson Edexcel - Tuesday 19 May 2020 - Paper 1 (Non-Calculator) Foundation Tier

1.					
	9 (a)	$\frac{3}{7}$	B1	oe	
	(b)	1 : 2.5		for appropriate method shown eg 30 ÷ 12 (= 2.5) or for a method that involves simplification of 12 : 30 approaching 1 : <i>n</i> , eg. 4 : 10 or 6 : 15 or 2 : 5 or for 2.5 : 1 or $2\frac{1}{2}$ : 1 for 1 : 2.5 or 1 : $2\frac{1}{2}$ or for <i>n</i> = 2.5	Accept a fraction equivalent to $2\frac{1}{2}$ , eg. 1 : $\frac{30}{12}$
					2.5 alone gets M1A0

#### Pearson Edexcel - Thursday 4 June 2020 - Paper 2 (Calculator) Foundation Tier

2	•	

20	1.75	P1	for an initial process eg 1.80 ÷ 12 (=0.15) or 1.80 ÷ 3 (=0.6)	Accept 1.8 ÷ 12 = 15 (p) They can work in pounds or pence
		P1	for a correct second step eg "0.15" $\div$ 3 (=0.05) or "0.6" $\times$ 7 (=4.2) or 3 $\div$ "0.15"(=20) or 7 $\div$ 3 (=2.3) or "0.15" $\times$ 7 (=1.05)	
		P1	for finding the price of one pen eg-"0.05" × 7 (=0.35) or "4.2" ÷ 12 (=0.35) or 7 ÷ "20"(=0.35) or "2.3 × "0.15" (=0.35) or "1.05" ÷ 3 (=0.35)	
		A1	cao	

### Pearson Edexcel - Tuesday 21 May 2019 - Paper 1 (Non-Calculator) Foundation Tier

27	96	P1	for process to find the ratio of the number of pens of each colour sold, eg $2 \times 7: 5 \times 3: 6 \times 4$ (= 14 : 15 : 24)	Does not have to be seen as a ratio but all three needed
		P1	for process to find the proportion of green pens sold, eg $\frac{212}{"14"+"15"+"24"}$ or $\frac{"24"}{"14"+"15"+"24"}$	
		P1	for a complete process to find the number of green pens sold, eg $\frac{212}{"14"+"15"+"24"} \times "24"$ or $\frac{"24"}{"14"+"15"+"24"} \times 212$	P3 can be implied by the values 56, 60 and 96
		A1	cao	

### Pearson Edexcel - Thursday 6 June 2019 - Paper 2 (Calculator) Foundation Tier

4.

26	168	P1	for working with ratio to find the amount for C or D eg. $1.5 \times 2$ (=3) or (A, B, C, D=) 2, 7, 3, 3 oe	
		P1	<b>OR</b> for suitable expressions linking A with C or D, eg. $A = x$ , $C = 1.5x$ for "2 + 3 + 3 + 7" (=15)	
		P1	<b>OR</b> adds 4 suitable expressions, eg. " $x + 3.5x + 1.5x + 1.5x$ " (= 7.5 $x$ ) for a complete process to find the amount of money	
		r i	eg. $360 \div "15" \times 7$ OR $360 \div "7.5" \times 3.5$	
		A1	cao	

### Pearson Edexcel - Tuesday 11 June 2019 - Paper 3 (Calculator) Foundation Tier

5.					
	12	$\frac{9}{25}$	M1	for $\frac{n}{6+9+10}$ where <i>n</i> is an integer < 25	
			A1	for $\frac{9}{25}$	Or equivalent fraction
6.			I		
	23	612	P1	Alan: for 100 - 32 - 40 (= 28) or for finding "28"% of 400 eg 400 × 0.28 (=112)	
			P1	Beryl: for $1 - \frac{3}{10} - \frac{1}{10} \left( = \frac{6}{10} = 60\% \right)$ or for finding " $\frac{6}{10}$ " × 500 (=300)	
			P1	Charlie: for starting to use the ratio 3 : 4 eg 150 ÷ 3 (=50)	

A		19. ·	
	A1	cao	Answers only (without working) award 0 marks.
	P1	for complete ratio process eg " $\frac{150}{3}$ " × 4 (=200)	
	200	channel for starting to use the ratio 51.4 eg 150 + 5 ( 50)	

### Pearson Edexcel - Tuesday 6 November 2018 - Paper 1 (Non-Calculator) Foundation Tier

15	(a)	420	P1	starts process, eg 300 ÷ 5 (= 60) or 200 ÷ 2 (= 100) OR builds up ratio to at least 300 ml orange juice with one error	
	<b>(</b> b)	explanation	P1 A1 C1	complete process, eg "60" × 5 + "60" × 2 or 300 : 120 cao explains that it will have no effect with reason, eg because he only needs 120 m/ of lemonade because he has no more orange juice to use	May be seen as "60" × 7 "60" must come from correct method

### Pearson Edexcel - Thursday 24 May 2018 - Paper 1 (Non-Calculator) Foundation Tier

8.

20	140	P1	for beginning to solve the problem eg $50 \div 5 \times 8 (= 80)$ or $14 : 8 : 5$ oe or $14 : 8$ and $8 : 5$ oe (linked)	80 may be seen in the ratio 80 : 50
		P1	for a full process to solve the problem eg "80" + 4 × 7 or $\frac{50}{5}$ × "14" or 140 : 80 : 50	
		A1	cao	If 140 clearly identified as houses in working award full marks

### Pearson Edexcel - Tuesday 12 June 2018 - Paper 3 (Calculator) Foundation Tier

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3	
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16 (a)	10	M1	for a start of method to find Bispah's share, 2 + 5 + 6 + 2 = 2 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	
		A1	eg 2.50 × 8 (= 20) or $\frac{1}{2} \div \frac{1}{8}$ (= 4) cao	Accept 10.00
(b)	1:3	P1	for a process to find Chan's share, eg "20" – 2.5 – [Bispah's money] (=7.5) or $1 - \frac{1}{8} - \frac{1}{2}$ (= $\frac{3}{8}$ )	Accept working in pence, or in £ given as a decimal oe NB: award this mark if the working is seen in par (a)
		P1	for a correct ratio eg 2.5 : "7.5" or $\frac{1}{8}$ : " $\frac{3}{8}$ " or 3 : 1 oe for 1 : 3 oe eg 5 : 15	Accept 3:1 (correct answer in reverse order) which can also be an equivalent ratio to 3:1 Award full marks for 1 : 3 or an equivalent ratio.
				If an equivalent ratio to 1:3 is shown and then simplified incorrectly award full marks.

### Pearson Edexcel - Thursday 2 November 2017 - Paper 1 (Non-Calculator) Foundation Tier

10.			
18	135	M1 A1	for 450 $\div$ "2+3+5" (=45) or $\frac{3}{10} \times 450$ (=135) or 5 parts are 225 or 2 parts are 90 indicated Cao

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	24	14:21:42	P1	for 2 out of 3 expressions in one letter eg from $x$ , $x+7$ $2x+14$ or see a set of numbers to show interpretation of the relationships, eg 10, 17, 34
			P1	(dep) for sum of their 3 expressions =77 eg $x + x+7+2x+14=77$ oe or 2 systematic correct trials including addition
			P1	for a correct process to isolate their term in $x$ or $x=14$
			A1	for ratio 14:21:42 oe

### Pearson Edexcel - Monday 6 November 2017 - Paper 2 (Calculator) Foundation Tier

 6 (a)
  $\frac{3}{7}$  B1
 for  $\frac{3}{7}$  or equivalent fraction

 (b)
 3:1
 B1
 for 3:1 or equivalent ratio

#### Pearson Edexcel - Wednesday 8 November 2017 - Paper 3 (Calculator) Foundation Tier

13.

10	60	M1 A1	for method to find the number, eg. 48 × $\frac{3}{2}$ (=72) or to find $\frac{1}{6}$ th of the number, eg. 48 ÷ 4 (=12) cao
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14.

12	Complete methods $3.60 \div 2.5 \times 3.5$ or $3.60 \div 5 \times 7$	5.04	M1	for a correct first step to find the cost of a unit of weight (eg. 1 kg or 0.5 kg) eg $3.60 \div 2.5$ (= 1.44) or $3.60 \div 5$ (= 0.72) or a complete alternative method
	or $3.5 \div (2.5 \div 3.6)$ or $\frac{3.5}{2.5} \times 3.6$ or $3.6 \div \frac{2.5}{3.5}$		A1	for 5.04 (accept £5.04p)

15.

15	(£6), 18, 24, 27	M1	demonstrates a proportional method to find at least one cost for cotton, eg. $\pounds 6 \div 2 \times 9$ (= ( $\pounds$ )27) or a correct entry in the table.
	15, 45, 60, 67.50	M1	demonstrates a proportional method to find at least one cost for silk, eg. $\pounds 6 \div 2 \times 5$ (= ( $\pounds$ )15) or a correct entry in the table.
		A1	for a fully correct table (accept 67.5(0))

16.

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	22	15	P1	strategy to start the problem, eg 8:20 and 20:5
			P1 A1	process to solve the problem, eg $\frac{5}{33} \times 100$ or 24:60:15 cao
	1		1	1

#### Pearson Edexcel – Specimen 2 - Paper 1 (Non-Calculator) Foundation Tier

8	15	M1 A1	For start to scaling process eg 12÷8 or 10÷8 15
1	-		1

12	700	P1	for process for total non-fiction books
			$eg \frac{1}{4} \times 80 \ (=20)$
		P1	process for total takings for non fiction
			eg 20 $\times \frac{1}{2} \times 10$ (= 100)
		P1	process to find total takings " $100$ " + $60 \times 10$
		A1	700

## Pearson Edexcel – Specimen 2 - Paper 2 (Calculator) Foundation Tier

19.				
	18	3:4	M1	for 32 – 8 (= 24) (dep) for "24" : 32 cao
			M1	(dep) for "24" : 32
			A1	cao
· ·		1		

20.

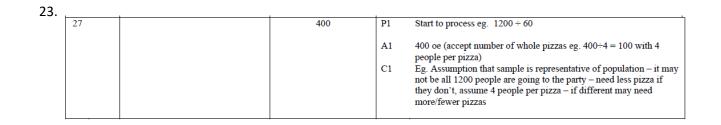
υ.					
	27	6:5=12:10	70	P1	for strategy to start to solve the problem
		2:1=10:5			eg 12 : 10 and 10: 5
		C: S: P = 12: 10: 5		P1	for process to solve the problem
					$eg \frac{10}{27} \times 189$
		$\frac{10}{27} \times 189$		A1	cao
		27			

## Pearson Edexcel – Specimen 2 - Paper 3 (Calculator) Foundation Tier

21.				
	22	171	P1 P1 A1	for process to find one share for process to find total cao

## Pearson Edexcel – Sample Paper 1 (Non-Calculator) Foundation Tier

25	28 H	P1 Process to start to solve problem eg. $\frac{3}{5} \times 40$ or divide any number in the ratio 3:2
	I	P1 Second step in process to solve problem eg. $\frac{2}{5} \times 10$ or find number of males/females under 25 for candidate's chosen number
	I	P1 for complete process
	1	A1



#### OCR - Tuesday 03 November 2020- Morning - Paper 1 (Calculator) Foundation Tier

24.

7         (a)         32:40         2         M1 for 72 ÷ (4 + 5) soi by 8         M1 implied by values 3	and 40
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25.

20	63	4	M1 for 80 + 65 + 95 or 240 seen as total M1 for <i>their</i> 240 × [0].6 or 144 M1 for <i>their</i> 144 – 43 – 38	condone $\frac{63}{95}$ for 4 marks and mark the method leading to <i>their</i> answer
			If 0 scored SC1 for 0.6 × 95 or 57	

#### OCR Monday 11 November 2019 – Afternoon (Calculator) Foundation Tier

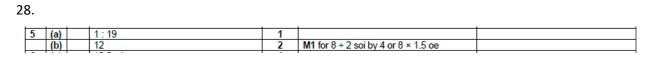
26.

9		40 : 48 linked to 5 : 6 or	3	B2 for 48 or 120	40:48 = 5:6 is enough.
		100 : 120 linked to 5 : 6 or		or	40 5
		1 : 1.2 linked to 5 : 6		B1 for 8	Allow $\frac{40}{48} = \frac{3}{6}$ for 3 marks
					40 0

#### OCR Tuesday 21 May 2019 – Morning (Calculator) Foundation Tier

19	(a)	$\frac{5}{36}$ or equivalent fraction	3	M2 for $\frac{5}{3+4+5} \times \frac{1}{3}$ oe implied by e.g. [0].139,
				[0].1388, 13.9%, 13.88%, $\frac{1.6}{12}$ , $\frac{1.66[6.]}{12}$ , $\frac{1.67}{12}$ , $\frac{1.7}{12}$ , $\frac{5/3}{12}$ or better
				OR B1 for $\frac{5}{12}$ or equivalent fraction or 0.416 or better
				OR M1 for $(\frac{3}{3+4+5} \text{ or } \frac{4}{3+4+5}) \times \frac{1}{3} \text{ oe or } \frac{1}{3} \times 5 \text{ oe, implied}$
				by 1. ċ, 1.66[6…], 1.67 or 1.7 or better
	(b)	4000	2	M1 for 1600 + 8 or (5+7+8) + 8 implied by 200 or 2.5

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



### OCR Thursday 8 November 2018 – Morning (Non-Calculator) Foundation Tier

29.

11	Flour 350 Butter 280 Sugar 140	4	M1 for [5 : ] 4 : 2 soi and M1 for 770 ÷ <i>their</i> (5 + 4 + 2) and M1 for 5 × <i>their</i> 70 or 4 × <i>their</i> 70 or 2 × <i>their</i> 70	Can be implied by 1 part = 70 soi their(5 + 4 + 2) must come from their stated 3 part ratio
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30.

10	(a)	(i)	<i>x</i> = 3	1	
		(ii)	y = x	1	Condone y = x ± 0
	(b)		Correct sketch of the graph of $y = x^2$ .	1	U shaped graph, approximately symmetrical going through the origin

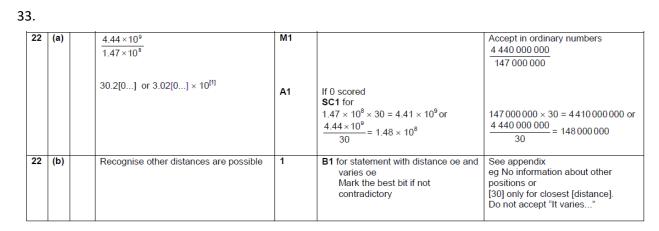
#### OCR Monday 24 May 2018 – Morning (Calculator) Foundation Tier

5	(a)	2:9	2	<b>B1</b> for 6 : 27 oe	Any correct simplified ratio of 12 : 54 Including 1 : 4.5 for <b>B1</b>
	(b)	2.5 cao	2	B1 for 400 : 1000 oe	Allow 1:2.5 for <b>B1</b> Condone inclusion of units for <b>B1</b> only
	(c)	161	3	M2 for $\frac{115}{5} \times (2+5)$ oe M1 for $\frac{115}{5}$ soi by 23 or 46	

#### OCR Thursday 7 June 2018 – Morning (Non Calculator) Foundation Tier

3	2.					
	9	a	Valid explanation	1	Such as 'It should be $\frac{2}{5}$ '	eg $\frac{2}{3}$ is more than half See AG
		b	6 : 11 or 1 : $\frac{11}{6}$ or 1 : $1\frac{5}{6}$ or $\frac{6}{11}$ : 1	1		Condone ratio not in its simplest form, eg using $\frac{6}{17}$ and $\frac{11}{17}$

#### OCR Tuesday 12 June 2018– Morning (Calculator) Foundation Tier



#### OCR Thursday 2 November 2017– Morning (Calculator) Foundation Tier

12	6000	4	B3 for 1125, 1875 and 3000
		-	OR
			M3 for 750 ÷ 2 × their (3+5+8)
			OR
			<b>M2</b> for 750 ÷ 2 × 3 or 750 ÷ 2 × 5
			or 750 ÷ 2 × 8
			OR
			M1 for 750 ÷ 2 soi by 375
			If 0 scored
			SC2 for 750 +1250 + 2000 = 4000
			or 450+ 750 +1200 = 2400
			OB
			SC1 for 750 ,1250 ,2000
			or 450, 750, 1200
			01 400, 100, 1200
			OR
			SC1 for [Leo] x [Kush ] x + 750 [Mai ]
			2x + 750 and totals to 4x + 1500

### OCR Monday 6 November 2017– Morning (Calculator) Foundation Tier

#### 35.

19	a	180 ÷ (1 + 2 + 3) × 3 [= 90]	2	M1 for 180 ÷ (1 + 2 + 3) If 0 scored, <b>SC1</b> for angles 30, 60, 90	Condone 6 for 1 + 2 + 3
	b	7.5	4	<b>B1</b> for sin 30° or cos 60° = ½ soi <b>M2</b> for 15 sin 30 oe or <b>M1</b> for x/15 = sin 30 oe	

36.

20		80	4	<b>M3</b> for 250 ÷ (8k +10k + 7k) × 8k <b>oe</b> or <b>M2</b> for 250 ÷ (8k +10k + 7k) <b>oe</b>	M3 implied by 80, 100, 70 with 80 not selected
				or <b>M1</b> for two ratios with a common number of women implied by 8 <i>k</i> (men) <b>and</b> 7 <i>k</i> (children) seen, <i>k</i> > 0 or for 8 : 10 [ : 7] or [4 : ] 5 : 3.5 <b>seen</b>	e.g. 0.8 and 0.7, 4 and 3.5

#### Pearson Edexcel – Sample Papers - Paper 1 (Non-Calculator) Foundation Tier

37.

10	$\frac{2}{7}$ B1	
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### Pearson Edexcel – Sample Papers - Paper 2 (Calculator) Foundation Tier

38.

23	96	P1	a strategy to start to solve the problem eg $18 \div (7 - 4)$ (=6)
		P1	for completing the process of solution eg "6" $\times$ (4 + 5 + 7)
		A1	cao

### OCR Wednesday 8 November 2017– Morning (Calculator) Foundation Tier

6	(a)		5:2	2	<b>B1</b> for 30 [:] 12 oe If 0 scored <b>SC1</b> for 5 : 7 or 2 : 5	Condone same units in ratios <b>B1</b> for 15 : 6 or 10 : 4 or 2.5 : 1 or 1 : [0].4 may miss ratio signs
	(b)		[0].28	2	<b>B1</b> for 250 or [0].7 seen or 2500 and 700 or figs 28 in answer If 0 scored <b>SC1</b> for [1: ] 3.57[1]	Condone answer 1 : [0].28 for <b>B2</b>
	(c)	(i)	5000	1		
		(ii)	50	2	<b>M1</b> for <i>their</i> 5000 ÷ 2 ÷ 50 oe	

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16	(a)	(i)	or		ers [are red] ellow in Bag		1	Accept 1 : 4 = $\frac{1}{5}$ Accept $\frac{1}{4}$ = 1 : 3	dec	imals Bag A	ts may be : 20% red		Ŭ
		(ii)	Bag A Bag B	Red 4 5	y integer m Yellow 16 15	ultiple of this.	3	<ul> <li>B1 for (Bag A) yellow = 4 × red and A total = B total</li> <li>B1 for (Bag B) yellow = 3 × red</li> <li>If 0 scored SC2 for correct figures but transposed horizontally</li> </ul>	Eg		×5 64 60 ×10 96	15 20 25 40	48 45 80 75 160 150
	(b)		20 nfww				3	<b>B1</b> for two ratios equivalent to 3:4 <b>M1</b> for <i>their</i> 15:20 reduced to (15-3):20 <u>Alternative approach</u> <b>B1</b> for two fractions equivalent to $\frac{3}{7}$ <b>M1</b> for <i>their</i> $\frac{15}{35}$ reduced to $\frac{15-3}{32}$	the usir Eg	ir 15:20 ng equi $\frac{6}{14}$ or $\frac{9}{2}$	$\frac{12:16}{10}$ any ratio valent fraction $\frac{12}{10}$ or $\frac{12}{28}$ or any fractio	but no ctions: $\frac{15}{35}$	ot 3:4

### 41.

20	2a – 1 [+ 2a +] 2a + 1	1		
	6a = 250	1	Not from a + 2a + 3a	
	250 ÷ 6 = 41.6[] oe or 250 ÷ 6 is not an integer	1		
	Alternative			
	81 + 82 + 83 = 246	1		First two numerical steps may be in reverse order and other sums may
	83 + 84 + 85 = 252	1		be seen (ignore)
	82.3[3] + 83.3[3] + 84.3[3] oe and impossible as not integer oe	1	If 0 scored <b>SC1</b> for one of 2a – 1 or 2a + 1 or 41.6[] or 83.3[] seen	

# OCR Thursday 25 May 2017 – Morning (Calculator) Foundation Tier

13	(a)	3 сао	1		
	(b)	1.5	3	M1 for 6 × 25000 soi by 150 000 or B1 for figs 15 or 1cm :0.25km and M1 for <i>their</i> 150000 ÷ 100 000 or for <i>their</i> 0.25 x 6	
	(c)	$\frac{6}{13}$	1		

### OCR Thursday 8 June 2017 – Morning (Non - Calculator) Foundation Tier

43.

19	(a)	22 : 15	2	M1 for any equivalent ratio or for two correct ratios with a common number of children seen implied by 22k and 15k seen (k > 1 and an integer) Or for $\frac{11}{3} \div \frac{5}{2}$ or for 11 : 7.5	15k : 22k implies M1 Accept 3.66 to 3.67 : 2.5
	(b)	258	3	<b>M2</b> for $\frac{36}{2} \times 5 + \frac{36}{3} \times 11$ [+36] <b>oe</b>	M2 implied by 222 [+36] not spoiled
				or $((2 \times 11) + (3 \times 5)) \times 36 \div 6$ [+36] oe or $\frac{6}{6+15+22} \times x = 36$ oe	90 + 132 [+ 36]
				or <b>M1</b> for $\frac{36}{2} \times 5$ or $\frac{36}{2} \times 7$ soi	Implied by 90 or 126 or 132 or 168 seen
				or $\frac{36}{3} \times 11 \text{ or } \frac{36}{3} \times 14 \text{ soi oe}$	

### OCR Sample Question Paper 1 – Morning/Afternoon (Calculator) Foundation Tier

44.

1	(a)	1:50	2 2 AO1.3a	M1 shows a partial simplification	e.g. 4 : 200
	(b)	50 300	2	<b>M1</b> for 350 ÷ (1 + 6)	
			2 AO1.3a		
	(c)	90	2	M1 for 10% = 45 soi	
			2 AO1.3a	or	
				<b>M1</b> for 450 × 0.2	

### OCR Sample Question Paper 3 – Morning/Afternoon (Calculator) Foundation Tier

5	He has assumed he can run 800 m at the same speed as he can run 100 m, but he will run 800 m at a slower speed, therefore it will take him more than 120 s	3 1 AO2.1a 1 AO3.4a 1 AO3.5	<b>B1</b> for correct reference to Darren's assumption OR $\frac{100}{15} = \frac{800}{120}$ soi <b>B1</b> for 'his speed will be slower over 800 m' oe	
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# AQA Tuesday 19 May 2020 – Morning (Non-Calculator) Foundation Tier

Q	Answer	Mark	Comments			
	20 or 12 or 10:6	B1	oe ratio check diagram for area counting to 20 or 12			
5	5:3	B1ft	ft if B0 awarded, a correct ar simplification of any unsimpl condone $\frac{5}{3}$ : 1 or 1.6:1 or 1: $\frac{3}{5}$ or 1:0.6 SC1 3:5	1		
	Additional Guidance					
	5 : 3 with no working			B2		
	Ignore any units given with the answe	er				
	18 : 16 = 9 : 8 (perimeter)	B0B1ft				
	Poor unit notation can score a maxim $20^2$ or $12^2$ or $5^2$ : $3^2$	num of B1	unless recovered	B1B0		

47.

Q	Answer	Mark	Commen	ts				
	Alternative method 1							
	2400 ÷ (3 + 5) or 2400 ÷ 8 or 300	M1	oe accept $\frac{1}{8}$ of 2400					
	5 × their 300 or 1500 or 3 × their 300 or 900 or their 300 ÷ 6 or 50	M1dep	oe					
	5 × their 300 ÷ 6 or (2400 – 3 × their 300) ÷ 6 or 1500 ÷ 6	M1dep	oe					
24	250	A1						
	Alternative method 2							
	2400 ÷ 6 or 400	M1	oe					
	their 400 ÷ (3 + 5) or 50	M1dep	oe 2400 ÷ 48 scores M	IM1				
	5 × their 50 or 400 – (3 × their 50)	M1dep	oe					
	250	A1						
	Ad	ditional G	Buidance					
	Answer 400 with 1500 or 900 in work	M1M1M0A0						
	Answer 400 with 250 in working			M1M1M1A0				
	Condone incorrect representation of eg 8 + 2400 = 300	M1						

# AQA Thursday 4 June 2020 – Morning (Calculator) Foundation Tier

Q	Answer	Mark	Comments
1	6:8	B1	

Λ	q	
+	)	•

Q	Answer	Mark	Comments		
	Alternative method 1				
	14 × 0.8 or 11.2 or 1.5 × 2 ÷ 0.8 or 3.75	M1	oe implied by 8.2 or 5.4(6) or 5.47 or 5.5		
	their 11.2 – 2 × 1.5 or their 11.2 – 3 or 8.2 or (14 – their 3.75) × 0.8 or 8.2	M1dep	oe implied by 5.4(6) or 5.47 or 5.5		
	their 8.2 $\div$ 1.5 or 5.4(6) or 5.47 or 5.5 or 5 $\rightarrow$ 7.5 or 6 $\rightarrow$ 9 with M2 seen	M1dep	oe		
18	6 with 5.4(6) or 5.47 or 5.5 seen or 6 with 5 $\rightarrow$ 7.5 and 6 $\rightarrow$ 9 and M2 seen	A1			
	Alternative method 2				
	14 × 0.8 or 11.2	M1	oe implied by 7.4(6) or 7.47 or 7.5 (packs)		
	their 11.2 $\div$ 1.5 or 7.4(6) or 7.47 or 7.5 (packs) or 7 $\rightarrow$ 10.5 or 8 $\rightarrow$ 12 with M1 seen	M1dep	oe <u>14×0.8</u> is M2 1.5		
	their 7.4(6) – 2 or 5.4(6) or 5.47 or 5.5 or 7 – 2 or 8 – 2 with M2 seen	M1dep	oe		
	6 with 7.4(6) or 7.47 or 7.5 seen or 6 with $7 \rightarrow 10.5$ and $8 \rightarrow 12$ and M2 seen	A1			

Q	Answer	Mark	Comments	
	Alternative method 3 Working in weeks			
	1.5 ÷ 0.8 or 1.875	M1	oe implied by 7.4(6) or 7.47 or 7.5 (packs)	
	14 ÷ their 1.875 or 7.4(6) or 7.47 or 7.5 (packs) or 7 → 13.1(25) or 8 → 15	M1dep	oe	
	their 7.4(6) – 2 or 5.4(6) or 5.47 or 5.5 or 7 – 2 or 8 – 2 with M2 seen	M1dep	oe	
18 cont	<ul> <li>6 with 7.4(6) or 7.47 or 7.5 seen</li> <li>or</li> <li>6 with 7 → 13.1(25) and 8 → 15 seen</li> </ul>	A1		
	Additional Guidance			
	Select the scheme that favours the si if not subsequently used	tudent for	the first 2 M marks even	
	Alts 2 and 3 the 7.5 must be packs not 7.5 kg (from 5 × 1.5)			
	For the final mark of Alt 1, eg $5 \rightarrow 7.5$ and 0.7 (short) is sufficient evidence and there are equivalents for Alts 2 and 3			
	For the final mark of Alt 1, eg $6 \rightarrow 9$ evidence and there are equivalents for			
	Accept repeated addition or subtracti eg $1.5 + 1.5 + 1.5 + 1.5 + 1.5 = 7.5$ in			

50.

Q	Answer	Mark	Comment	s	
	Alternative method 1				
	30 × 8 or 240	M1			
	440 – their 240 or 200	M1dep	implied by 10 (medium) a or numbers of sweets in large totalling 200		
	12m + 16l where m and l are integers with $m = 2l$ or $12 \times 2 + 16$		eg 12 × 6 + 16 × 3 or 72 + 48 with 6 (mediu shown	m) and 3 (large)	
	or	M1			
	120 (sweets in medium) and 80 (sweets in large)				
	or 10 medium or 5 large		medium or large may be	implied	
	30 : 10 : 5	A1	oe ratio eg 6:2:1		
21	Alternative method 2				
	30 × 8 or 240	M1			
	440 - their 240 or 200		implied by 10 (medium) a	ind 5 (large)	
		M1dep	or numbers of sweets in large totalling 200	medium and in	
	$12 \times 2x + 16x = $ their 200 or $x = 5$		oe equation in terms of la any letter	irge bags	
	or 1	M1dep			
	$12y + 16 \times \frac{1}{2}y = $ their 200		oe equation in terms of m	edium bags	
	or y = 10		any letter		
	30 : 10 : 5	A1	oe ratio eg 6:2:1		
	Ad	ditional G	Buidance		
	Ignore incorrect simplification if 30 :	10:5 see	en		
	Answer 240 : 120 : 80			M1M1M1A0	
	Award up to M3 even if working not subsequently used				

51.

Q	Answer	Mark	Comment	ts
	40 (women) and 44 (men) and No or 40 : 44 and No or 84 and No or 8 (women leave) and 2 (men arrive) and No	B2	oe B1 40 (women) and 44 or 40 : 44 or 84 or 8 (women leave) and	
27	Ade	ditional G	Buidance	
	NB 84 from incorrect working eg 41	+ 43 = 84	l .	B0
	For B1 the values may be seen amoreg1 20:22 30:33 40:44 50:55 eg2 21,42,63,84,105, eg3 10,20,30,40,50, and 11,2 eg4 $\frac{44}{84}$ (implies 84)		, 55,	B1
	For B2 the value(s) must be chosen to that point and No must be indicated		ing or a list stopping at	

## AQA Monday 8 June 2020 – Morning (Calculator) Foundation Tier

52.

Q	Answer	Mark	Comments
23	2:1	B1	

## AQA Tuesday 21 May 2019 – Morning (Non-Calculator) Foundation Tier

53.

17(a)	28 : 12 or 14 : 6 or 56 ÷ 8 and 24 ÷ 8 (may be done in stages) or 3 and 7 seen	M1	
	7:3	A1	

17(b)	1.25 : 1	B1	oe eg $\frac{5}{4}$ :1
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	180 ÷ (1 + 9) or 18 or 162	M1				
	18 and 162	A1				
	Additional Guidance					
17(c)	162 and 18			M1A0		
	Build-up method will score 2 or 0					
	eg 1:9					
	2:18 does not score M1 for 18					

### AQA Thursday 6 June 2019 – Morning (Calculator) Foundation Tier

	Alternative method 1			
	8 <sup>2</sup> or 64 and 17 <sup>2</sup> or 289	M1		
	$\sqrt{17^2 - 8^2}$ or $\sqrt{225}$ or 15	M1dep	oe implies M2 may be seen on diagram	
	8 × 3 × their 15 or 24 × their 15	M1dep	dep on M2 oe eg (8 + 16) × their 15 or 0.5 × 8 × their 15 × 6	
	360	A1	SC2 [448.8, 456]	
	Alternative method 2			
	$\cos C = \frac{8}{17}$ or $C = [61.9, 62]$	M1	may be seen on diagram	
22	17 × sin their [61.9, 62] or [14.9, 15.1]	M1dep	may be seen on diagram oe eg 8 × tan their [61.9, 62]	
	8 × 3 × their [14.9, 15.1] or 24 × their [14.9, 15.1] or [357.6, 362.4]	M1dep	dep on M2 oe eg (8 + 16) × their [14.9, 15.1] or 0.5 × 8 × their [14.9, 15.1] × 6	
	360	A1	SC2 [448.8, 456]	
	Alternative method 3			
	$\sin A = \frac{8}{17}$ or $A = [28, 28.1]$	M1	may be seen on diagram	
	17 × cos their [28, 28.1] or [14.9, 15.1]	M1dep	may be seen on diagram oe eg 8 ÷ tan their [28, 28.1]	
	8 × 3 × their [14.9, 15.1] or 24 × their [14.9, 15.1] or [357.6, 362.4]	M1dep	dep on M2 oe eg (8 + 16) × their [14.9, 15.1] or 0.5 × 8 × their [14.9, 15.1] × 6	
	360	A1	SC2 [448.8, 456]	

Alternative method and Additional Guidance continued on the next page

	Alternative method 4			
	$\cos C = \frac{8}{17}$ or $C = [61.9, 62]$	M1	may be seen on diagram	١
	$\frac{1}{2} \times 8 \times 17 \times \text{sin their [61.9, 62]}$	M1dep	oe	
	or [59.9, 60.1]			
	6 × their [59.9, 60.1] or [357.6, 362.4]	M1dep	oe	
	360	A1	SC2 [448.8, 456]	
22 cont	Additional Guidance			
	15 without a contradictory value for A method 1, even if not subsequently u	M1M1		
	$\sqrt{17^2 + 8^2}$	M1M0		
	3 <sup>rd</sup> M1 is for the total area and may b using a trapezium + a triangle			
	3 <sup>rd</sup> M1 is for the total area so further v eg 360 seen followed by 360 – 60, ar			M1M1M0A0
	May use sine rule or cosine rule but must reach AB = to award the second M1 in Alt 2 or 3			

	(200 + 160 + 104 + 100) * 4 or 564 * 4 or 141	M1		
	their 141 ÷ 3 × 8 or 47 × 8 or 1128 ÷ 3 or 376	M1dep	oe accept 141 × 2.66() o	r 141 × 2.67
	their 376 × 5 or 1880	M1dep		
27	427	A1		
	Additional Guidance			
	(270 + 400 + 483 + 300 + 427) ÷ 5 e	M1M1M1A0		
	(1453 + x) + 5 = 376 and 1453 + x =	M1M1M1		
	(1453 + x) + 5 = 376			M1M1M0
	200 + 160 + 104 + 100 ÷ 4 scores M0	) unless re	ecovered	

# AQA Tuesday 6 November 2018 – Morning (Non-Calculator) Foundation Tier

### 56.

16	3:18 or 18:3 or $\frac{1}{3}$ :1 or 1: $\frac{1}{3}$ or $6 \times 3$	M1	oe both ratios correctly the values for <i>a</i> are eq additional scaling) eg 6 : 36 <b>and</b> 6 : 2		
	18	A1			
	Additional Guidance				
	Do not accept words instead of ratios for M1				
	Accept embedded answers eg $b = 18c$			M1A1	
	1:6 2:12 3:18 4:24 (etc)			M1	
	18 – 3 (= 15)			M1A0	

## AQA Thursday 8 November 2018 – Morning (Calculator) Foundation Tier

	8	B1			
	Additional Guidance				
	Ignore mention of bulls or cows eg condone 8 cows			B1	
18(a)	Condone an answer of 8 : 240			B1	
	8 : 240 followed by 1 : 30			B0	
	8 : 30			B0	
	Do not accept 8 from an incorrect met eg 240 ÷ 31 = 7.7 and answer 8	hod		В0	

	Alternative method 1				
	[28, 31] × 10 or [280, 310]	M1	appropriate days in 10-month year		
	their [280, 310] × 25 or [7000, 7750] or	M1dep	litres per year per cow		
	their [280, 310] × 240 or [67 200, 74 400]	Mildep	milkings per year for 240 cows		
	their [7000, 7750] × 240 or their [67 200, 74 400] × 25	M1dep			
	[1 680 000, 1 860 000] with correct		accept to 1 or 2 sf with correct working		
	working	A1	SC2 answer of [2 016 000, 2 232 000] with the only error using 12 months and working shown		
	Alternative method 2				
18(b)	25 × 240 or 6000	M1	litres per day for 240 cows may be seen embedded in a product eg 25 × 10 × 240		
	their 6000 × [28, 31] or [168 000, 186 000] or	M1dep	litres per month for 240 cows		
	25 × 240 or 6000 and	macp	litres per day for 240 cows and		
	[28, 31] × 10 or [280, 310]		appropriate days in 10-month year		
	their [168 000, 186 000] × 10 or 25 × 240 × [28, 31] × 10 or their 6000 × their [280, 310]	M1dep			
	[1 680 000, 1 860 000] with correct working	A1	accept to 1 or 2 sf with correct working SC2 answer of [2 016 000, 2 232 000] with the only error using 12 months and working shown		

	Alternative method 3		
	[28, 31] × 25 or [700, 775]	M1	litres per month per cow
	their [700, 775] × 10 or [7000, 7750]		litres per year per cow
18(b)	or their [700, 775] × 240 or [168 000, 186 000]	M1dep	litres per month for 240 cows
	their [7000, 7750] × 240 or their [168 000, 186 000] × 10	M1dep	
	[1 680 000, 1 860 000] with correct working	A1	accept to 1 or 2 sf with correct working SC2 answer of [2 016 000, 2 232 000] with the only error using 12 months and working shown
cont	Alternative method 4		
	[28, 31] × 240 or [6720, 7440]	M1	milkings per month for 240 cows
	their [6720, 7440] × 10 or [67200, 74400] or their [6720, 7440] × 25 or [168 000, 186 000]	M1dep	milkings per year for 240 cows litres per month for 240 cows
	their [67 200, 74 400] × 25 or their [168 000, 186 000] × 10	M1dep	
	[1 680 000, 1 860 000] with correct working	A1	accept to 1 or 2 sf with correct working SC2 answer of [2 016 000, 2 232 000] with the only error using 12 months and working shown

Additional Guidance continued on the next page

	Additional Guidance	
	Use the scheme that awards the most marks and ignore choice	
	A value in the range [280, 310] may come from subtracting two months from a year eg uses 303 (may come from $365 - 31 - 31$ )	M1
	The special case allows 2 marks for those using 12 months or using [336, 372] days	
	Allow <b>consistent</b> use of approximations to 1 sf throughout (this leads to an answer in the given range) ie 30 × 10 × 30 × 200 = 1 800 000	M3A1
	Mark inconsistent use of approximations to 1sf as the scheme	
18b	Their final answer must be in range and correct for their product but may be given to 1 or 2 sf	
cont	eg	
	280 days: 28 × 10 × 25 × 240 = 1 680 000	
	300 days: 30 × 10 × 25 × 240 =1 800 000	
	310 days: 31 × 10 × 25 × 240 =1 860 000	M3A1
	303 days: 303 × 25 × 240 = 1 818 000	
	304 days: 304 × 25 × 240 = 1 824 000	
	305 days: 305 × 25 × 240 = 1 830 000	
	eg	
	12 months of 28 days: 28 × 12 × 25 × 240 = 2 016 000	
	12 months of 30 days: 30 × 12 × 25 × 240 = 2 160 000	SC2
	12 months of 31 days: 31 × 12 × 25 × 240 = 2 232 000	562
	365 days: 365 × 25 × 240 = 2 190 000	
	366 days: 366 × 25 × 240 = 2 196 000	

# AQA Monday 12 November 2018 – Morning (Calculator) Foundation Tier

	Alternative method 1			
	$\frac{8}{5}$ and $\frac{5}{5}$		oe fractions with common denominators	
	or any correct ratio using integers or	M1	eg 16 : 10	
	$\frac{1.6}{1.6+1}$ or $\frac{1.6}{2.6}$			
	8 13	A1	oe fraction eg $\frac{4000}{6500}$	
19(a)	Alternative method 2			
	6500 + (1.6 + 1) or 2500		oe	
	or 6500 ÷ (1.6 + 1) × 1.6 or 4000	M1		
	or $\frac{2500}{6500}$ or $\frac{5}{13}$ or $\frac{1}{2.6}$			
	8 13	A1	oe fraction eg $\frac{4000}{6500}$	
	Ado	ditional G	uidance	

	1:0.625 or 1:58	B1	oe fraction	
19(b)	Additional Guidance			
	0.625 in working 1 : 0.6			B0

# AQA Thursday 24 May 2018 – Morning (Non-Calculator) Foundation Tier

59.

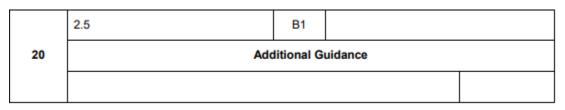
	$24 \times \frac{3}{4}$ or $24 \div 4 (\times 3)$ or $6 (\times 3)$ or $18$ or $18:6$	М1	oe	
	30 : 6	A1		
22	5:1	B1ft	ft their ratio written in s	implest form
	Ad	ditional G	uidance	
	15:3 or 10:2			M1A1B0
	answer 1 : 5 answer 6 : 30			M1A0B1ft M1A0B0ft
	18 : 24 then 3 : 4			M1A0B1ft

# AQA Thursday 24 May 2018 – Morning (Non-Calculator) Foundation Tier

	405 + (4 + 11) or 405 + 15 or 27 or build up in 15s to 405	М1	Clear intention to divide Do not accept 15 ÷ 405 or recovered	unless clearly	
	their 27 × 4 or 108 or their 27 × 11 or 297	M1dep			
	108 and 297	A1			
24	Additional Guidance				
	297 and 108			M1M1A0	
	Answer 108 : 297			M1M1A1	
	Partial build up using ratios from 4 : 11 (eg 104 : 286) is 0 marks unless correct answer achieved M0M0A0			M0M0A0	
	If 405 is divided by 10 and then divided was clearly seen first, then it is M1M0A	is M0 unless 405 ÷ 15			

## AQA Thursday 7 June 2018 – Morning (Calculator) Foundation Tier

61.



AQA Thursday 7 June 2018 – Morning (Calculator) Foundation Tier

62.

	Alternative method 1		
	22.5(0) and 4		
	or		
	27 and 8		
	or		
	31.5(0) and 12		
	or		
	36 and 16		
26	or	M1	
20	40.5(0) and 20		
	or		
	45 and 24		
	or		
	30 : 16		
	or		
	45 : 24		
	45 and 24 chosen	A1	eg 45 : 24 is the final ratio seen
	6	A1	

Mark scheme and additional guidance continues on the next page

	Alternative method 2				
26	18 + 4.5x and 4x seen or $\frac{18 + 4.5x}{15} = \frac{4x}{8}$	M1	any letter oe sets up correct equation		
	8(18 + 4.5x) = 60x or $144 + 36x = 60x$ or $24x = 144$	M1dep	eliminates denominators oe	rs	
cont	Additional Guidance				
	Answer 6 that is not from incorrect method			M1A1A1	
	45 and 24 followed by eg 49.5(0) and 28 (answer not 6)			M1A0A0	
	Equivalent ratio to 15 : 8 that is not 36 (answer not 6)	8 that is not 30 : 16 or 45 : 24 eg 60 : 32 M0A0A0			
	Final calculation $\frac{15}{8} \times 24 = 45$ (answ	er not 6)		M1A1A0	

# AQA Thursday 2 November 2017 – Morning (Non-Calculator) Foundation Tier

	$\frac{2}{5}$	B1		
11a	Add	itional Gu	lidance	

	$\frac{5}{9} \times 72$ or $8 \times 5$ or $360 \div 9$	M1	oe eg multiples of 8 listed chosen with maximum of		
	40	A1	SC1 32		
11b	Additional Guidance				
	40 72			M1A0	
	40 out of 72			M1A1	

# AQA Monday 6 November 2017 – Morning (Calculator) Foundation Tier

64.

	120 ÷ (1 + 4) or 120 ÷ 5 or 24 or 96	M1	oe	
	24 : 96	A1	in order	
Additional Guidance		idance		
19a	96 : 24			M1A0
	120 ÷ 5 and 120 ÷ 4 is choice unless intention is clear			
Further cancelling after 24 : 96 seen eg 1 : 4			M1A0	

19b	1.75:1 or $1\frac{3}{4}:1$ or $\frac{7}{4}:1$	B1	
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# AQA Thursday 25 May 2017– Morning (Non-Calculator) Foundation Tier

	Alternative method 1			
	8 × 2 or 16	M1	implied by 8 : 16	
	their 16 + 8 or 24	M1dep	8 × 3	
	48	A1		
	Alternative method 2			
15	(1 + 2 = 3)	M1		
	3 + 3 or 6			
	their 6 × 8	M1dep	their 6 must be from 3 + 3	
	48	A1		
	Additional Guidance			
	Beware 24 coming from incorrect working	ng		
	eg Misread of 8 girls who do not sing in	the show	v, leading to answer of 24 M1M1A0	

# AQA Thursday 8 June 2017– Morning (Calculator) Foundation Tier

66.

## AQA Thursday 8 June 2017– Morning (Calculator) Foundation Tier

	A counter example using both ratios or using numbers of hits and misses for both players	eg Katy could be 6 : 2 and 1 eg Ben 10 hits and 2 misse Katy 12 hits and 4 misse B1 for a correct number of 1 (not 3 and 1) or a correct ed Katy	s and es hits and misses	
	Alternative method 2 (hits and total thro			
	A counter example using total throws and number of hits for both players or using proportion of hits for both players	eg Katy could have $\frac{18}{24}$ and B2 B1 for a correct number of f	eg Katy could have hit 6 out of 8, Ben hit 5 eg Katy could have $\frac{18}{24}$ and Ben $\frac{10}{12}$ B1 for a correct number of total throws and hits (not 3 out of 4) or a correct proportion hits (not $\frac{3}{4}$ ) for Katy	
19	Additional Guidance			
	Must use the given ratios			
	(Ben) 5:1 (Katy) 6:2	B2		
	15:3 and 15:5 (so the same hits)		B2	
	(Katy) 6 : 2 or (Katy) 6 hits and 2 misses		B1	
	List of equivalent ratios for (Ben and) Katy	B1		
	15:3 and 9:3	15:3 and 9:3		
	Fractions of hits out of total throws oe percentages or decimals or words eg $\frac{5}{6}$ and $\frac{3}{4}$ eg $\frac{20}{24}$ and $\frac{18}{24}$ eg $\frac{5}{6}$ and $\frac{6}{8}$		B0 B1 B2	
	6 8 Ben had (two) more throws – he had 6 and	I she had 4	B0	

# AQA Tuesday 13 June 2017 Morning– Morning (Calculator) Foundation Tier

68.

	E marked at midpoint of line	B1	mark intention	
17(a)	Additional Guidance			
	Accept any clear marking of the point			
	R marked 3 cm from P	B1	mark intention	
17(b)	Additional Guidance		Guidance	
	Accept any clear marking of the point			

### AQA Tuesday 13 June 2017 Morning– Morning (Calculator) Foundation Tier

	Alternative method 1			
	Any correct scaling of the ratio 5 : 2 eg 10 (:) 4 or 20 (:) 8 or 25 (:) 10	M1	oe	
	22.5 (:) 9 or 22.5 (red)		oe	
	or 30 (:) 12 or 12 (blue)	M1dep		
	31.5 or $31\frac{1}{2}$ or $\frac{63}{2}$	A1		
	Alternative method 2			
	9 ÷ 2 or 4.5		oe	
	or 30 ÷ 5 or 6	M1	2 ÷ 9 or 0.22	
			5 ÷ 30 or 0.16 or 0.17	
	5 × their 4.5 or 22.5		oe	
21	or 7 × their 4.5 or 2 × their 6 or 12	M1dep		
	or 7 × their 6 or 42			
	31.5 or $31\frac{1}{2}$ or $\frac{63}{2}$	A1		
	Alternative method 3			
	$\frac{2}{7}$ × purple = blue	M1	oe $\frac{2}{7}$ × purple = 9	
	$\frac{5}{7}$ × purple = red		$\frac{5}{7}$ × purple = 30	
	$9 \times \frac{7}{2}$	M1dep	oe	
	or 30 × $\frac{7}{5}$ or 42	mingeb		
	31.5 or $31\frac{1}{2}$ or $\frac{63}{2}$	A1		

Additional Guidance continues on the next page

	Additional Guidance	
	28 + 3.5 = 31.5	M1M1A1
	28 + 3.5	M1M1A0
	31.5, answer 31	M1M1A1
	31.5 + 42 = 73.5	M1M1A0
21	10 4	M1M0A0
cont	10, 4	M1M0A0
	10 + 4	M1M0A0
	'He has 2.5 times more red than blue'	M1M0A0
	2.5 : 1	M1M0A0
	2.5	M0M0A0
	28 on its own	M0M0A0

# AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

70.

13(a)	28	B1	
13(b)	6	B1	

## AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

	Alternative method 1			
	18 ÷ (3 + 2) or 3.6	M1		
	their 3.6 $\times$ 3 $\times$ 2.8(0) or 30.24(0)	M1dep		
	their 3.6 $\times$ 2 $\times$ 3.5(0) or 25.2(0)	M1dep	dep on first M1	
	55.44	A1		
	Alternative method 2			
	$3 \times 2.8(0) + 2 \times 3.5(0)$ or 15.4(0)	M1		
28	18 ÷ (3 + 2) or 3.6	M1		
	their $3.6 \times$ their $15.4(0)$	M1dep	dep on M1 M1	
	55.44	A1		
	Alternative method 3	_		
	$3 \times 2.8(0) + 2 \times 3.5(0)$ or 15.4(0)	M1		
	their 15.4(0) ÷ 5 or 3.08	M1dep		
	their 3.08 × 18	M1dep		
	55.44	A1		

# AQA Sample Paper 2– Morning (Calculator) Foundation Tier

	Alternative method 1			
	2 parts $\rightarrow$ 116	M1	oe	
	116 ÷ 2 × 16	M1	ое	
	928	A1		
28	Alternative method 2			
	Writes at least 3 ratios or numbers of boys and girls equivalent to 9:7	M1	eg 18:14 and 180:140 and 360:280	
	522 and 406	M1		
	928	A1		

# AQA Sample Paper 3– Morning (Calculator) Foundation Tier

12(a)	1 3.5	M1	
12(a)	$\frac{2}{7}$	A1	oe fraction
	Alternative method 1		
	120 000 × (1 + 2.5)	M1	
	420 000	A1	
	Alternative method 2		
12(b)	120 000 ÷ their 2 their 7	M1	where fraction in (a) is of the form $\frac{m}{n}$ , m > 1
	$120\ 000 \div \frac{\text{their 1}}{\text{their 3.5}}$		where fraction in (a) is of the form $\frac{1}{n}$
	420 000	A1ft	ft their answer from part (a)