

Oxford Revise | Edexcel GCSE Maths Foundation | Answers

Chapter 15 Ratio

Question	Answer				Extra information	Marks
15.1	3:7				Must be in the correct order	1
15.2	3:1				Must be in the correct order	1
15.3	1:0.8				Must be in the correct order. $1:\frac{4}{5}$ also fine	1
15.4	$\frac{4}{7}$					1
15.5	For every 2 s student who has cat : doe	does not.		t, there is 1		1
15.6	Treated Untreated	2 metres £3.00 £2.25	4 metres £6.00 £4.50	11 metres £16.50 £12.38	Method to find at least one cost from top row or any correct entry in the table. Method to find at least one cost from bottom row or any correct entry in the table.	1 1 1
15.7	Perimeter ratio = $5:12:13$ Divide by 2.5 to get the ratio $2:4.8:5.2$ Add these up to get 12 cm			: 5.2	Fully correct table Method to find at least one of the missing sides Adding all three sides Correct answer	1 1 1



Question	Answer	Extra information	Marks
15.8	9 parts = 270 , so each part is 30 ml	270÷9	1
15.8	8 parts water = $8 \times 30 = 240$ ml	Correct answer	1
15.9	11 + 3 = 14 parts Each part = $70 \div 14 = 5$ cards Winning cards = $3 \times 5 = 15$ cards	70 ÷ 14 Correct answer	1 1
15.10	3 parts = 9 litres Each part = 3 litres So, white paint = $2 \times 3 = 6$ litres	9÷3 Correct answer	1 1
15.11	3 + 4 = 7 parts Each part has $98 \div 7 = 14$ marks Shorter paper has $3 \times 14 = 42$ marks	98 ÷ 7 Correct answer	1 1
15.12 (a)	Isosceles		1
	3 + 2 + 3 = 8 parts	Dividing 180 by the sum of 2, 3 and 3	1
15.12 (b)	Each part is $180 \div 8 = 22.5^{\circ}$ Smallest angle $= 2 \times 22.5^{\circ} = 45^{\circ}$	Each part is 22.5° Correct answer	1
15.13	7 - 2 = 5 5 parts = 90 1 part = 90 ÷ 5 = 18 pencils 7 × 18 = 126 pencils	Dividing 90 by 5 Correct answer	1 1
15.14 (a)	1.8 m to 2.2 m		1



Question	Answer	Extra information	Marks
15.14 (b)	1 m : 3 cm		1
13.14 (b)	$6 \text{ m}: 6 \times 3 = 18 \text{ cm}$		Ţ
15.15	184 m = 18 400 cm	Multiplying by 100 and dividing by 2000 Correct answer	1
	$18400 \div 2000 = 9.2 \text{ cm}$		
	Sam's model is 9.2 cm tall.		1
	2 cm : 5 km		
	$2 \text{ cm} : 5 \times 1000 \times 100 = 500\ 000 \text{ cm}$	500.000	1
15.16 (a)	1 cm : 250 000 cm	500 000 cm Correct answer	1
	So, the ratio is 1 : 250 000		
15.16 (b)	5 × 400 000 = 2 000 000 cm = 20 000 m = 20 km	2 000 000 cm	1
		Correct answer	1
	Fraction of people who brought a phone $=\frac{3}{4}$	0.75 or 0.1 or equivalent	1
	10% left their phones on.		
	If $p =$ number of people in the cinema, then	Form an equation	1
15.17	$\frac{3}{4}p \times 0.1 = 84$	Attempt to solve	1
	So $p = \frac{4}{3} \times 840 = 1120$ 1120 people were in the cinema audience.	Correct answer	1



Question	Answer	Extra information	Marks
15.18 (a) – (c)	$x = -2 \frac{y^{4}}{6}$ $y = x$ $y = 2$ $y = -2$	1 mark for each correct line, labelled	3