

**Ratios Past Paper Answers Edexcel Maths IGCSE -Higher**

1.

(a)	1 + 7 or 8		2	M1	8 may be denominator of fraction or coefficient in an equation such as $8x = 32$	SC If M0 A0, award B1 for 4 : 28
		28		A1	cao	
(b)	$32 \times 45$ or 1440 or 14.4(0)m		3	M1		
	$\frac{1440}{72}$			M1	dep	
		20		A1	cao	
<b>Total 5 marks</b>						

2.

	5 + 9 or 14 seen or or $\frac{n}{14}$ oe (provided no evidence of 14 from incorrect method)		3	M1	or $\frac{5+9}{5+9+6} \times x = 56$
	$56 \div "14"$ or 4 or $\frac{6}{14} \times 56$			M1	dep or $56 \div \frac{14}{20}$ or 80
		24		A1	Also accept 20 : 36 : 24 as final answer
<b>Total 3 marks</b>					

3.

(a)	$14 \div 4$ oe	3.5	2	M1 A1
(b)	4 (cms) = 100 000 (cms) or 4 : 100 000 or $100\,000 \div 4$ or 1 (km) = 0.00004 (km) or 1 : 0.00004 or " $3.5" \times 10^5 \div 14$	1 : 25 000	2	M1 A1 cao
<b>Total 4 marks</b>				

4.

(a)	$840 : 40$ oe or $840 \div 40$ oe or 1 : 21	21	2	M1 A1	Accept 21 : 1
(b)	$(105 \div 3) \times 2$	70	2	M1 A1	M1 for $105 \div 3 (=35)$
(c)	$(105 \div \{4+3\}) \times 3$	45	2	M1 A1	M1 for $105 \div (4+3) (=15)$
<b>Total 6 marks</b>					

5.

Q	Working	Answer	Mark	Notes
	$240 \times \frac{3}{3+4+8}$ or 48 or $240 \times \frac{8}{3+4+8}$ or 128		3	M1
	"128" – "48"			M1 dep
		80		A1
<b>Total 3 marks</b>				

6.

correct method should be taken to imply a correct method

Q	Working	Answer	Mark	Notes
(a)	$(40 \div 16) \times 240$ oe	600	2	M1 for a fully correct method A1
(b)	$(600 \div 120) \times 16$ oe	80	2	M1 for a fully correct method A1
(c)	$240 \div 150$ or $150 : 240$ oe	1.6 oe	2	M1 A1
<b>Total 6 marks</b>				

7.

$\frac{400}{5+3}$ or 50 or $\frac{400}{5+3} \times 5 (=250)$ or $\frac{400}{5+3} \times 3 (=150)$ "50" $\times 2$	100	3	M1 M1 For $\frac{400}{5+3} \times 5 (=250)$ and $\frac{400}{5+3} \times 3 (=150)$ A1
<b>Alternative Method</b>			
	100	3	M2 For $\frac{2}{8} \times 400$ A1
<b>Total 3 mark</b>			

8.

question	Working	Answer	Mark	Notes
	$73 \div 200 (=0.365)$ or $73 \times 100 (=7300)$ or 1 cm = 2 m oe "0.365" $\times 100$ or "7300" $\div 200$ $73 \div 2$	36.5	3	M1 M1 Allow their incorrectly converted 73 m $\div 200$ A1 M2 for $100 \div \frac{200}{73}$ oe