Q	Answer	Mark	Commen	ts
1	2 (cm) and 8 (cm) seen or [3.54, 4.56] or 3 ÷ [1.8, 2.2] or [1.36, 1.67] or [1.8, 2.2] ÷ 3 or [0.6, 0.74]	M1	each \pm 2 mm implied by whale divided or $\frac{1}{4}$ of the whale oe	into four sections
	[10.6, 13.7]	A1	working for M1 must be seen SC1 [10.6, 13.7] with no or insufficient working	
	2:8 and 3:12 on answer line			M1A0

Q	Answer	Mark	Comments	
	Alternative method 1 Using the given values			
	4.2 ÷ 7 or 0.6 or 7 ÷ 4.2 or 1.66 or 1.67		implied by 1 \rightarrow 0.6 or 0.5 \rightarrow 0.3	
	or 2.5 ÷ 7 or 0.357 or 0.36 or	M1		
	7 ÷ 2.5 or 2.8			
	2.5 × 4.2 ÷ 7	M1dep	oe eg $2.5 \div (7 \div 4.2)$ or $2.5 \div 1.67$ or $4.2 \div (7 \div 2.5)$ or $4.2 \div 2.8$ or full build-up eg $0.6 \div 0.6 \div 0.3$ or 0.3×5 or $4.2 \div 2 - 0.6$	
	1.5	A1	oe fraction or decimal SC2 answer with digits 15	
2	Alternative method 2 Working consistently in centimetres			
	4.2 × 100 ÷ 7 or 60 or 7 ÷ (4.2 × 100) or 0.0166 or 0.0167 or 2.5 ÷ 7 or 0.357 or 0.36	M1	oe eg 420 \div 7 or 7 \div 420 implied by 1 \rightarrow 60 or 0.5 \rightarrow 30	
	or 7 ÷ 2.5 or 2.8			
	2.5 × 420 ÷ 7 or 150	M1dep	oe eg $2.5 \div (7 \div 420)$ or $2.5 \div 0.0167$ or $420 \div (7 \div 2.5)$ or $420 \div 2.8$ or full build-up eg $60 + 60 + 30$ or 30×5 or $420 \div 2 - 60$	
	1.5	A 1	oe fraction or decimal SC2 answer with digits 15	

	Additional Guidance		
	Up to M1 may be awarded for correct work with no, or incorrect answer, even if this is seen amongst multiple attempts		
	Answer 1.5 with no working		
	150 is M2A0 but Answer 150 cm with m crossed out would be M2A1		
	4.2 : 1.5 or 420 : 150	M2	
	For consistent working in millimetres or metres apply the principles of Alt 2		
	Incorrect or inconsistent change of units must be recovered for M2A0 or M2A1, otherwise score 0 or SC2		
2 cont	eg1 42 ÷ 7 = 6, 6 × 2.5 = 15, Answer 1.5 (units recovered)	M2A1	
	eg2 4200 \div 7 = 800, 800 \times 2.5 = 2000, Answer 2 (arithmetic slip but method shown and units recovered)	M2A0	
	eg3 42 ÷ 7 = 6, 6 × 2.5 = 15, Answer 15 (units never recovered)	SC2	
	NB Correct values from incorrect methods		
	eg1 $7 - 4.2 = 2.8$ with no other creditworthy work	M0M0A0	
	eg2 $2.5 \div 4.2 = 0.6$ (1 dp) with no other creditworthy work	M0M0A0	
	If rounded or truncated values are used, the final answer must be exactly 1.5		
	eg1 2.5 ÷ 1.66 Answer 1.5 (may have kept full value on calculator)	M2A1	
	eg2 2.5 ÷ 1.66 = 1.506 Answer 1.5 (comes from further rounding)	M2A0	

Q	Answer	Mark	Comments	
	Alternative method 1			
	8 × 1.65 or 13.2	M1	oe	
	their 13.2 ÷ 3.8 or [3.47, 3.474] or [3.47, 3.474] × 100 or [347, 347.4]	M1	oe their 13.2 must come from a division or multiplication using 8 and 1.65 only	
	3.47	A1	SC2 3.4(0) or 3.5(0)	
	Al		SC1 50.16 or 1.27 or 1.28	
	Alternative method 2			
3	8 ÷ 3.8 or [2.1, 2.11]	M1	oe	
	their [2.1, 2.11] × 1.65 or [3.465, 3.4815] or [3.465, 3.4815] × 100 or [346.5, 348.15]	M1	oe their [2.1, 2.11] must come from a division or multiplication using 8 and 3.8 only	
	3.47	A1	SC2 3.4(0) or 3.5(0) SC1 50.16 or 1.27 or 1.28	
	Alternative method 3			
	1.65 ÷ 3.8 or [0.43, 0.434211]	M1	oe	
	8 × their [0.43, 0.434211] or [3.44, 3.474] or [3.44, 3.474] × 100 or [344, 347.4]	M1dep	Oe Oe	
	3.47	A1	SC2 3.4(0) or 3.5(0) SC1 50.16 or 1.27 or 1.28	

	Additional Guidance	
	Up to M2 may be awarded for correct work, with no or incorrect answer, even if this is seen amongst multiple attempts	
	In Alt 1 and Alt 2 the 2nd mark is not dependent In Alt 3 the 2nd mark is dependent	
	Answer 347 cm or 348 cm with metres crossed out	M1M1A0
	Begins by multiplying or dividing by a power of 10	
	eg1 800 × 1.65 ÷ 3.8 oe with answer 3.47 (recovered)	M1M1A1
3 cont	eg2 8 × 165 ÷ 3.8 oe with answer 347	
	eg3 800 × 1.65 oe with answer 1320	M1M0
	eg4 0.8 × 165 oe	M1
	3.47 in working but a different answer on the answer line,	
	eg 1 3.47 in working but 3 on answer line	M1M1A0
	eg 2 3.47 in working but 347 on answer line	M1M1A0
	8 × 1.65 ÷ 3.8 oe	M1M1
	8 ÷ (3.8 ÷ 1.65)	M1M1
	8 × 1.65 × 3.8 oe (which gives 50.16)	M1M0
	8 ÷ 1.65 ÷ 3.8 oe (which gives 1.27 or 1.28)	M0M1
	8 ÷ 1.65 × 3.8 oe (which gives 18.4242)	МОМО
	1.65 × 3.8 with no other relevant working	M0