

Question	Answer	Mark	Comments		
2	$\frac{7}{5}$ or $1\frac{2}{5}$	B2	B1 28 and 20 or $2\frac{1}{3} \text{ and } 1\frac{2}{3} \text{ oe mixed nor fractions with common of correct unsimplified fractions}$ or correct simplification of a at least one of the value the other is not 12 $SC1 \frac{5}{7}$	tion or mixed	
	Additional Guidance Allow a fractional numerator and/or denominator in a correct fraction eg $\frac{2\frac{1}{3}}{1\frac{8}{12}}$ or $\frac{\frac{28}{12}}{\frac{5}{3}}$			B1	
	$\frac{2.4}{1.8}$ simplified to $\frac{4}{3}$			В0	
	Ignore an attempt to convert $\frac{7}{5}$ to an improper fraction				
	eg $\frac{7}{5} = 1\frac{2}{7}$ on the answer line			B2	
	7 : 5 with no working worthy of B1			В0	

Q	Answer	Mark	Comments
3	50 cm	B1	

Q	Answer	Mark	Comments	
	$80 \times x$ or $80x$ or $x \times 80$ or $x80$ or $x \div 60$ or $\frac{x}{60}$ or $\frac{1}{60}x$ or $x \div \frac{1}{60}$ or $80 \div 60$ or $\frac{80}{60}$	M1	teabags per hour boxes per minute	
	$\frac{80x}{60} \left(= \frac{4x}{3} \right)$ or $80 \div 60 \times x \left(= \frac{4x}{3} \right)$	A1	oe showing 80 and 60 and x eg $\frac{80 \times x}{60} \left(= \frac{4x}{3} \right)$ or $x = \frac{80}{60}$ or $x = \frac{80}{60} \times x \left(= \frac{4x}{3} \right)$ or $x = 80$	$\left(=\frac{4x}{3}\right)$
	Additional Guidance			
	M1 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts			
4	Do not allow M1 if only seen embedded in an incorrect expression or calculation eg $80x \times 4 = 320x$			MO
	$60 \times \frac{4x}{3} = 80x$ (M1 allowed as $80x$ is not embedded in an incorrect expression or calculation, A0 because using the given answer)			M1A0
	Condone $x = 80 \div 60$			M1A0
	$\frac{80x}{60} \left(= \frac{4x}{3} \right)$			M1A1
	$\frac{80}{60} = \frac{4}{3} \text{and} \frac{4}{3} \times x \left(= \frac{4x}{3} \right)$			M1A1
	$\frac{80}{60} = \frac{4}{3}$ and $\frac{4x}{3}$			M1A0
	No equivalents allowed for M1			
	Ignore units			
	Condone 1.33() for $\frac{4}{3}$			
	Ignore non-contradictory working after	er M1A1 s	een	

Q	Answer	Mark	Comments
5	$1 \text{ cm}^2 = 100 \text{ mm}^2$	B1	

Q	Answer	Mark	Comments	
	Alternative method 1: works out concrete poured in 30 minutes			
	10.9 × 30 × 60 ÷ 1000 or 19.6(2) or 10.9 × 30 × 60 or 19620 and 20 × 1000 or 20000	M3	oe full method eg 10.9 × 1800 ÷ 1000 or 30 × 654 ÷ 1000 or 19620 ÷ 1000 M2 two correct steps eg 10.9 × 30 × 60 or 19620 or 10.9 × 30 ÷ 1000 or 0.327 or 10.9 × 60 ÷ 1000 or 0.654 or 30 × 60 ÷ 1000 or 1.8	
6			M1 one correct step eg 10.9 × 30 or 327 or 10.9 × 60 or 654 or 10.9 ÷ 1000 or 0.0109 or 30 × 60 or 1800 or 30 ÷ 1000 or 0.03 or 60 ÷ 1000 or 0.06 or 20 × 1000 or 20000	
	19.6(2) and No or 19620 and 20000 and No	A1	oe eg 19.62 so it isn't	

	Alternative method 2: works out time for 20 tonnes at given rate			
6 cont	20 × 1000 ÷ 10.9 ÷ 60 or [30.5, 30.6] or 20 × 1000 ÷ 10.9 or [1834, 1835] and 30 × 60 or 1800	M3	oe full method eg 20 000 ÷ 10.9 ÷ 60 or 20 × [91.7, 91.74312] ÷ 60 or [1834, 1835] ÷ 60 M2 two correct steps eg 20 × 1000 ÷ 10.9 or [1834, 1835] or 20 × 1000 ÷ 60 or 333.() or 20 ÷ 10.9 ÷ 60 or [0.0305, 0.031] or 1000 ÷ 10.9 ÷ 60 or [1.52, 1.53] M1 one correct step eg 20 × 1000 or 20 000 or 20 ÷ 10.9 or [1.83, 1.835] or 20 ÷ 60 or 0.33() or 1000 ÷ 10.9 or [91.7, 91.74312] or 1000 ÷ 60 or [16.6, 16.7] or 10.9 × 60 or 654 or 30 × 60 or 1800	
	[30.5, 30.6] and No or [1834, 1835] and 1800 and No	A1	oe eg 30.6 so it isn't	
	Additional Guidance			
	Up to M2 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts			
	M3 or M2 will usually be seen in stages eg Alt 1 10.9 × 30 = 327 327 × 60 = 19620 19620 ÷ 1000			МЗ
	M2 or M1 may be seen embedded in more than one step (extra steps could be incorrect)			
	No may be indicated by selecting the box or a statement in the working lines			
	No cannot be implied only by an inequality			
	A correct value is sufficient for showing working eg Alt 1 19.62 and No			M3A1
	Ignore their units throughout			
	Other approaches are possible eg w in 30 minutes and compares to 10.9	orks out ra	ate in kg per s for 20 tonnes	