

Q1. (2017)

11	$4x = 14 + 3$ or $4x = 17$ or $(14 + 3) \div 4$ or $17 \div 4$ or $x - \frac{3}{4} = \frac{14}{4}$	M1	
	4.25 or $\frac{17}{4}$ or $4\frac{1}{4}$	A1	
	Additional Guidance		
	Embedded answer of 4.25 with 4.25 not selected on answer line eg $4 \times 4.25 - 3 = 14$ with no answer given or answer of 14 or 17		M1A0
	$14 + 3$ and answer 4.25		M1A1
	$14 + 3$ only		M0A0
	Trial and improvement with answer 4.25		M1A1
	Trial and improvement with no answer or answer other than 4.25		M0A0
	4.25 or $\frac{17}{4}$ or $4\frac{1}{4}$ seen and then answer 4 given		M1A1
	Answer of $\times 4.25$		M1A0
	$17 \div 4$ (and no further)		M1A0

Q2. (2019)

10	$90 \times \frac{3}{10}$ or 27	M1	oe
	their 27×2	M1dep	oe 27×2 implies M2
	54	A1	SC1 answer 126 or answer 600
	Additional Guidance		
	Answer 54		M1M1A1
	$\frac{3}{10}$ of 90 is insufficient method unless a correct method or 27 is seen or implied		

Q3. (2019)

27	$y = 3x$	B1	
	Additional Guidance		

Q4. (2020)

Q	Answer	Mark	Comments
5(a)	8	B1	
	Additional Guidance		
	$56 \div 7 = 8$		B1
	Answer of $\times 8$ (unless recovered)		B0
	Answer of $8x$ (unless recovered)		B0
	Award the mark for an embedded answer only if the answer is selected eg1 $7 \times 8 = 56$ with no answer or with incorrect answer eg2 $7 \times \textcircled{8} = 56$ with no contradictory answer		B0 B1

Q5. (2020)

Q	Answer	Mark	Comments
5(b)	7	B1	
	Additional Guidance		
	$25 - 18 = 7$		B1
	$18 - 25 = 7$ (allow recovery)		B1
	Answer of -7 (unless recovered)		B0
	Answer of $7y$ (unless recovered)		B0
	Award the mark for an embedded answer only if the answer is selected eg1 $25 - 7 = 18$ with no answer or with incorrect answer eg2 $25 - \textcircled{7} = 18$ with no contradictory answer		B0 B1

Q6. (2021)

Q	Answer	Mark	Comments
18	$10x = 21 + 3$ or $10x = 24$ or $(21 + 3) \div 10$ or $24 \div 10$	M1	oe eg $-10x = -3 - 21$
	2.4	A1	oe eg $\frac{24}{10}$ or $\frac{12}{5}$ or $2\frac{4}{10}$ or $2\frac{2}{5}$ SC1 1.8 oe
	Additional Guidance		
	$10x - 3 + 3 = 21 + 3$		M1
	$10x - 3 = 21 + 3$ or $10x - 3 + 3 = 21$ unless recovered		M0
	$10x \div 10 - 3 \div 10 = 21 \div 10$		M1
	$10x \div 10 - 3 = 21 \div 10$ unless recovered		M0
	Embedded answer eg $10 \times 2.4 - 3 = 21$ with no or incorrect answer		M1A0

Q7. (2022)

Q	Answer	Mark	Comments
28	Alternative method 1		
	$10x - 5$	M1	may be seen in a grid
	their $10x - 6x = 9 + \text{their } 5$ or $4x = 14$ or $14 \div 4$ or $7 \div 2$	M1	oe eg their $-5 - 9 = 6x - \text{their } 10x$ or $4x - 14 = 0$ collecting two terms in x and two constant terms correctly
	$\frac{14}{4}$ or $3\frac{2}{4}$ or $\frac{7}{2}$ or $3\frac{1}{2}$ or 3.5	A1ft	oe ft M1M0 or M0M1 with exactly one error
	Alternative method 2		
	$\frac{6x}{5} + \frac{9}{5}$	M1	oe two terms eg $1.2x + 1.8$
	$2x - \text{their } \frac{6x}{5} = \text{their } \frac{9}{5} + 1$ or $\frac{4x}{5} = \frac{14}{5}$	M1	oe eg $-1 - \text{their } \frac{9}{5} = \text{their } \frac{6x}{5} - 2x$ or $\frac{4x}{5} - \frac{14}{5} = 0$ collecting two terms in x and two constant terms correctly
	$\frac{14}{4}$ or $3\frac{2}{4}$ or $\frac{7}{2}$ or $3\frac{1}{2}$ or 3.5	A1ft	oe ft M1M0 or M0M1 with exactly one error

28 cont	Additional Guidance		
	Ignore simplification or conversion if correct answer seen		
	Correct answer from trial and improvement		M1M1A1
	Correct equation with terms collected or division with no or incorrect answer		M1M1A0
	Embedded 3.5 with no or incorrect answer		M1M1A0
	$10x - 5 = 6x + 9$ $10x - 6x = 9 - 5$ $x = 1$ (exactly one error in line 2)		M1 M0 A1ft
	$7x - 5 = 6x + 9$ $7x - 6x = 9 + 5$ $x = 14$ (exactly one error in line 1)		M0 M1 A1ft
	$10x - 5 = 6x + 9$ $10x + 6x = 9 - 5$ $x = \frac{4}{16}$ (two errors in line 2)		M1 M0 A0ft
	$10x - 1 = 6x + 9$ $10x - 6x = 9 + 1$ $x = 3$ (exactly one error in line 1 but answer does not ft)		M0 M1 A0ft
	$7x - 6 = 6x + 9$ $7x - 6x = 9 + 6$ $x = 15$ (two errors in line 1)		M0 M1 A0ft
	$10x + 4 = 6x + 9$ $10x - 6x = 9 + 4$ $x = 3.25$ (neither M mark scored)		M0 M0 A0ft
	$10x - 5 = 30x + 45$		M1M0A0ft
	Any ft answer must be rounded or truncated to 1 dp or better		
	The last two marks can be implied without the collection of terms seen eg $10x - 1 = 6x + 9$ and $x = 2.5$		M0M1A1ft
	Collecting terms before the bracket has been expanded		M0M0A0ft