

The following marks are awarded for each question.

B	Unconditional accuracy mark
M	Method mark – the correct method must be shown but there may be an arithmetic error; the sight of the value given in brackets implies the award of the method mark
A	Accuracy mark – unless the question specifies that working must be shown then the sight of the correct answer implies the award of full marks (unless the answer clearly comes from incorrect working)
C	Communication mark
P	Process mark to show correct process for problem solving. Any other process of a similar standard to achieve an accurate result is acceptable to achieve this mark
FT	Incorrect values may be followed through from one step to the next, provided that the correct method is seen in each step and the only errors are arithmetic. This is shown in mark schemes by putting a number in inverted commas
OE	Or equivalent answer mark

Q	Answer	Mark	Comment
1a	6	B1	
1b	22	B1	
3	6	M1	for $(13 + 5) \div 3$ OE; could be in a flow diagram
		A1	

5	2	M1	$-1 \times 4 + 6$ OE for $-1 \times 4 + 6$ OE	
		A1		
7	7	M1	23 + 5 (= 28) or write a suitable equation eg $6x - 5 = 23$	
		M1		M1 for complete method, e.g. $(23 + 5) \div 4$ OE; accept missing brackets
		A1		
9	-2, -1, 0, 1, 2	B2	B1 for $(-2) - 1, 0, 1, 2, (3)$ or four correct with no incorrect	

11	3	B1	for $7x - 14$
		M1	for correct method to isolate terms in x in an equation, e.g. $7x - 3x = -2 + "14"$
		A1	
13	$(x =) 12$	B1	$x + x + 3 + x - 4 = 35$ or for two of $x, x + 3, x - 4$
		M1	(dep on B1) for " x " + " $x + 3$ " + " $x - 4$ " = 35
		M1	for correct method to isolate terms in x and numbers, e.g. $x + x + x = 35 - 3 + 4$ OE
		A1	
15	$5n - 1$	B2	B1 for $5n + k, k \neq -1$

Question	Topic	Step	Mark
1a	Solve simple linear equations with integer coefficients, of the form $ax = b$ or $x \pm b = c$, e.g. $2x = 18$, $x + 7 = 12$ or $x - 3 = 15$	4th	1
1b	Solve simple linear equations with integer coefficients, of the form $ax = b$ or $x \pm b = c$, e.g. $2x = 18$, $x + 7 = 12$ or $x - 3 = 15$	4th	1
3	Find outputs of more complex functions and inputs using inverse operations	4th	2
5	Substitute positive and negative integers into simple formulae	5th	2
7	Construct and solve simple linear equations with unknown on one side	6th	3
9	Write down whole number values that satisfy an inequality	6th	2
11	Solve linear equations which involve brackets, including those that have negative signs and those with a negative solution	7th	3
13	Construct and solve simple linear equations with unknown on one side	6th	4
15	Find and use the n th term of an arithmetic sequence	7th	2

