Question	Answer	Mark	Comments	
	8.6 and 0.4	B1	either order	
	9(.0)	B1ft	ft their two numbers SC1 answer 9(.0), cards blank	
	Ad	ditional G	Guidance	
	Do not allow misreads of the card value	ues in this	question	
Ī	8.6 and 0.27 Answer 8.87		B0B1ft	
	8.6 and 6.3 Answer 14.9		B0B1ft	
1(a)	0.27 and 6.3 Answer 6.57		B0B1ft	
Ī	0.27 and 0.4 Answer 0.67		B0B1ft	
_	6.3 and 0.4 Answer 6.7		B0B1ft	
	8.6 + 0.27 = 8.87 Answer 9			
	(ignore rounding if correct decimal seen)			
	Cards take precedence, but if cards or other working and award the lowest m unambiguously identified			
	8.6 and 0.27 in this order only	B1		
	8.33	B1ft	correct or ft their two numbers	
	Additional Guidance			
	Do not allow misreads of the cards in	this quest	tion	
1(b)	Examples of follow through (there are many) 0.27 and 8.6 Answer -8.33 6.3 and 0.4 Answer 5.9			
•	Cards take precedence, but if cards or answer line are blank, mark all other working and award the lowest mark unless their choice is unambiguously identified			
	22	B1		
2	Additional Guidance			
-				
3	9 and 18	B1		
_	C GITG TO	٥.		

	26 37 40 48 with no other numbers	B2	any order B1 all 4 correct with one or 3 correct with at mos numbers	
	Additional Guidance			
4	Ignore repeated numbers			
	26 37 40 48 in working with 4 on answer line		B2	
	Ignore numbers with a difference of 4 between their digits out of range for B1			
	eg 15 26 37 40 48 51			B1

Question	Answer	Mark	Commer	nts
	No and fully correct reason		eg No and it is (£)10 (po first day) or No and it is (£)10.8(0) po	-
		B2	days or No and it would be (£)70 or No and you pay more fo B1 No and partially corre eg No and (£)10.8(0) or fully correct reason with incorrect decision	or the first day ect reason
	eg it is (£)10 (per day after the first da  Additional Guidance			fter the first day)
5	Equivalent values for (£)10.8(0) per day for five days (£)11.(00) per day for four days (£)11.33 per day for three days (£)12.(00) per day for two days			
	Equivalent values for (£)70 for five d (£)56 for four days (£)42 for three days (£)28 for two days	ays		
	Do not ignore incorrect reasons with	a correct	reason for B2	
	Calculations must be correct for B2			
	Ignore irrelevant reasons with a corre	ect reason	ı	
	No, 24 – 14 = 10			B2
	No, as next would be 28			B2
	No and (C =) 10n + 4			B2

Correct reason stated with decision yes	B1
No, it is £28 (partially correct reason)	B1
No, it is £12	B1
No, 5 × 14 is not 54	B1
States No with no reason	В0
States No with incorrect reason	В0
No, it does not go up by (£)14 per day	В0

6	x + 10 is always positive		
	x + 10 is always negative	<b>5</b> 4	
	x + 10 cannot be zero	B1	
	x + 10 could be positive or negative or zero		

Q	Answer	Mark	Commen	ts	
	Sometimes true Always true Always true Never true	B4	B1 for each		
	Additional Guidance				
7	Allow any unambiguous indication eg all 4 correct boxes contain a cross	ther boxes blank	B4		
	A row with one tick and some crosses – mark the tick				
	A row with more than one tick is B0 for that row				
	Mark the boxes not the working lines				

Q	Answer	Mark	Comments
8	4.56	B1	

Q	Answer	Mark	Comments
9	$\frac{x}{2}$	B1	

Q	Answer	Mark	Commen	ts	
Q	2 1 4	B2	2 and 6 can be in either 3 and 4 can be in either B1 the horizontal line multiplier or the vertical line multiplier or the sum of the vertical line the sum of the horizontal or the sum of the horizontal than the sum of the vertical	order lies to 12 s to 12 ne is 1 more than I line I line is 1 more	
	Additional Guidance				
	Must use 1, 2, 3, 4 and 6 each once	Must use 1, 2, 3, 4 and 6 each once and all circles must be completed			
10	Examples of B1	3 3 2	1	B1	
	Use of a repeated number			B0	

Q	Answer	Mark	Comments
11(a)	5+6-2-8 or 5+6-8-2 or 6+5-2-8 or 6+5-8-2	B1	

Q	Answer	Mark	Comments
12	1.5	B1	

Q	Answer	Mark	Comments
13	7 <i>b</i>	B1	

Q	Answer	Mark	Comments			
	36 or 29 or 92	B1	condone 6.3 or 3.6 or 2.9	or 9.2		
	Additional Guidance					
	Condone eg multiplication signs or 'b	y' or comi	mas or 'and'			
	eg $3 \times 6$ or $2 \times 9$ or $9$ by $2$	B1				
	or 3, 6 or 2, 9 or (9, 2)			B1		
14(a)	or 3 and 6 or 2 and 9 or 9 and 2			B1		
14(a)	Only 6 × 3 or 6 by 3 or 6, 3 or (6,	3) or 6 a	and 3	В0		
	Any evaluation included in the answe	r must be	сопест			
	More than one correct answer eg 36 and 92			B1		
	Allow inclusion of 63 eg 36 and 63					
	Inclusion of an incorrect answer eg 36 and 24					
Q	Answer	Mark	Comments			
	Any 2-digit number with at least		eg 50 or -50			
	one digit of 0	B1	condone eg 7.0 or 0.2 or 0.0			
			condone eg 00 or 01 or 02 etc			
	Additional Guidance					
	Condone eg multiplication signs or 'b	v' or comi	mas or 'and'			
14(b)	eg $5 \times 0$ or $0$ by $5$ or $0 \times 0$	-		B1		
14(2)	or 1, 0 or (0, 1) or 0, 0			B1		
	or 2 and 0 or 0 and 2 or 0 and 0	B1				
	Any evaluation included in the answe	r must be	correct			
	More than one correct answer eg 20	and 30		B1		
	Inclusion of an incorrect answer eg 2	20 and 21		В0		

Q	Answer	Mark	Comments		
	89 or 98 or 99	B1	condone 8.9 or 9.8 or 9.9		
	Ad	ditional G	Suidance		
	Condone eg multiplication signs or 'by' or commas or 'and'				
	eg 8 by 9 or 9 × 8 or 9 × 9				
14(c)	or (8, 9) or 9, 8 or 9, 9				
	or 8 and 9 or 9 and 8 or 9 and 9				
	Any evaluation included in the answe	соггест			
	More than one correct answer eg 89 and 98				
	Inclusion of an incorrect answer eg 8	39 and 91		В0	

Q	Answer	Mark	Comments
15(a)	20	B1	
Q	Answer	Mark	Comments
15(b)	9	B1	
Q	Answer	Mark	Comments
15(c)	14 and 29	B1	either order
Q	Answer	Mark	Comments
15(d)	15	B1	

Q	Answer	Mark	Comments			
	35	B1				
16(a)	Ad	ditional G	Guidance			
	Mark the answer line. If this is blank, the answer may be seen on the diagram					
		<b>.</b>				
Q	Answer	Mark	Comments			
	-2	B1				
16(b)	Additional Guidance					
15(2)	Mark the answer line. If this is blank, the answer may be seen on the diagram					

Q	Answer						Mark	Comments	
	Two even and two odd numbers and the numbers all different and the sum of the four numbers is 46			any order B1 two even and two odd numbers and the sum of the four numbers is 46  or the numbers all different and the sum of the four numbers is 46  or two even and two odd numbers and the numbers all different and the numbers all different and the sum of the four numbers is [36, 56]		is 46 is 46 ers			
17(a)	11	+ 8	+	6	+	21	7		B2
			]		]   ]		<u> </u>		
	30	+ 10	+	3	+	3	(no	t all different)	B1
	8	+ 12	+	10	+	16	(no	odds)	B1
	10	+ 16	+	1	+	11	(not	t 46 but in range)	B1
	15	+ 10	+	15	+	10	(no	t all different <b>and</b> not 46)	В0
	3	+ 5	+	7	+	29	(no	evens <b>and</b> not 46)	В0
	Negativ	es are ac	ccept	able fo	r B1	or B2	2		
	0 is an e	even nun	nber	for B1	or B	2, but	a blank t	oox does not imply 0	
		ns and/o 46 for B1		imals a	are a	ccept	table for f	our different numbers that	
	Mark the	Mark the boxes							

Q	Answer	Mark	Comments		
17(b)	3 × 10 or 6 × 5	B2	either order B1 uses a factor of 12 and the product of the two number or uses a factor of 40 and the product of the two number or the product of the two number	ers is [24, 36]	
	Additional Guidance				
	3 × 9			B1	
	7 × 5			B1	
	30 × 1			B1	
	15 × 2			B1	
	Fractions and/or decimals are acceptable for non-factors for B1				
	Mark the boxes				

Q	Answer	Mark	Comments	
	36 ÷ 2	B2	B1 any square number > 1 or any prime number	
	А	dditional 0	Guidance	
	Allow squares to be written in index	form for B	2 or B1 eg	
17(c)	$6^2$ ÷ $2$			B2
	2 ÷ 36			B1
	÷ 9			B1
	72 ÷ 4			B1
	Mark the boxes			

Q	Answer	Mark	Comments		
	Alternative method 1				
	n + 1 is even		oe		
	and	B2	B1 n + 1 is even		
	odd × even is even		or odd × even is even		
	Alternative method 2				
	$n^2 + n$		oe		
	and		B1 $n^2 + n$		
	odd <sup>2</sup> is odd	B2	or		
	and		odd <sup>2</sup> is odd		
	odd + odd is even		and		
18			odd + odd is even		
	Alternative method 3				
	n and $n + 1$ are consecutive		oe		
	numbers	B2	B1 $n$ and $n + 1$ are consecu	tive numbers	
	and odd × even is even	D2	or		
	odd x everi is everi		odd × even is even		
	Additional Guidance				
	Alt 1				
	odd + 1 = even				
	and			B2	
	multiplying an odd and an even = even				

Q	Answer	Mark	Comments
19	–5°C	B1	

Q	Answer	Mark	Comments		
20	$62-54$ or 8 or $54-62$ or $-8$ or $\frac{62-54}{2}$ or 4 or $\frac{54-62}{2}$ or $-4$ or $\frac{62+54}{2}$ or $\frac{116}{2}$ or $58$ or $2+16+13+27=58$ or $1+15+12+30=58$	M1	oe eg 1 + 15 + 16 + 30 - 2 - 12 - 13 - 27 or 2 + 12 + 13 + 27 - 1 - 15 - 16 - 30 or -1 + 3 + 3 + 3 or 1 - 3 - 3 - 3		
	12 and 16	A1	either order		
	Ad	ditional G	Guidance		
	Up to M1 may be awarded for correct answer, even if this is seen amongst				
	Answer 12 and 16 even if working u	M1A1			
	58 only seen from an incorrect addition	on		MO	

Q	Answer	Mark	Comments
24(=)	6.92	B1	first answer
21(a)	7.18	B1	second answer
Q	Answer	Mark	Comments
	-5 and 4	B1	either order
24(b)		ы	first answer
21(b)	-10 and -2	D4	either order
		B1	second answer

Q	Answer	Mark	Comments			
	35679		B2 last digit square <b>and</b> mid even with three of the follow constraints met:			
		В3	<ul><li> only one square</li><li> only one even</li><li> no repeats</li><li> ascending order</li></ul>			
			or 97653			
			B1 last digit square with no squares	other		
			or middle digit even with no	other evens		
			or 35679 unordered, not	scoring B2		
	Additional Guidance					
	Mark the answer line					
22	1 3 6 7 9 (two squares is only error)					
	3 5 6 7 1 (order is only error)					
	3 3 6 7 9 (repeat is only error)					
	0 3 6 7 9 (two even numbers)					
	3 3 2 3 9 (order wrong and repeats be digit is only square)	ut middle	digit is only even and/or last	B1		
	3 3 2 3 4 (order wrong and two evens	but last o	digit is only square)	B1		
	1 3 4 5 7 (middle digit is only even)			B1		
	2 2 5 6 4 (last digit is only square)	B1				
	23456	В0				
	13489			В0		
	Must have 5 single digits					

Q	Answer	Mark	Comments
23	>	B1	
	=	B1	
	<	B1	
	Additional Guidance		
	Must use the correct symbol, not word equivalents		