Q1. (2017)

4	$-4 < -3$	B1	

Q2. (2019)

24	–1 0 1 2	B3	B2 three correct values with no incorrect values or –3 –2 –1 0 1 2 and –1 0 1 2 3 4 5 or interval that contains only the integers –1 0 1 2 B1 –3 –2 –1 0 1 2 or –1 0 1 2 3 4 5 SC2 answer 2 3 4 5
	Additional Guidance		
	Examples of intervals that contain only the integers –1 0 1 2 $-1 \leqslant x \leqslant 2$ or [–1, 2] or $-2 < x < 3$ or (–2, 3)		
	–1 0 1 2 3 4 5 may be shown as an interval that contains only these integers eg $-1 \leqslant x < 6$ or [–1, 6)		
	Intervals can be shown on a number line		
	–3 –2 –1 0 1 2 can **not** be shown as an interval or on a number line		
	Lists may be in any order eg 1 2 3 4 5 –1 0		B1
	Condone repeats in lists eg –1 0 1 1 2		B3
	Ignore commas/and/or between numbers in lists		
	–3 –2 –1 0 1 2 3 4 5 with no other valid working		B0

Q3. (2020)

Q	Answer	Mark	Comments
20(a)	$(24 + 8 =) 32$	B2	B1 $(2a =) 2 \times 12$ or $(2a =) 24$ or $(b =) 8$
	Additional Guidance		
	32 with no incorrect working		B2
	32 from incorrect working eg $22 + 10 = 32$		B0
	$24 + 9 = 33$		B1
	$22 + 8 = 30$		B1
	$24a$ without a B1 response		B0
	$8b$ without a B1 response		B0
	$24a + 8b$ without a B1 response		B0
	Use of inequalities in answer without a B1 response		B0

Q4. (2020)

Q	Answer	Mark	Comments
20(b)	An example where x and y are both negative and $\frac{y}{x} = 4$	B1	eg $x = -1$ and $y = -4$ values of x and y can be implied eg $\frac{-12}{-3}$ $(= 4)$
	Additional Guidance		
	Correct use of ÷ instead of fractions is allowed eg $-12 \div -3$		B1
	Must show the fraction or division or state which is x and which is y eg –1 and –4		B0
	Decimals and / or fractions may be used eg $\frac{-6.4}{-1.6}$ or $\frac{-2}{\frac{-1}{2}}$		B1
	One correct example among several attempts		B1

Q5. (2021)

Q	Answer	Mark	Comments
28	Sometimes true Always true Always true Never true	B4	B1 for each
	Additional Guidance		
	Allow any unambiguous indication eg all 4 correct boxes contain a cross with all other 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		

Q6. (2022)

(A)

Q	Answer	Mark	Comments
12(a)	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 'by' or commas or 'and' eg 3 × 6 or 2 × 9 or 9 by 2 or 3, 6 or 2, 9 or (9, 2) or 3 and 6 or 2 and 9 or 9 and 2	 B1 B1 B1	
	Only 6 × 3 or 6 by 3 or 6, 3 or (6, 3) or 6 and 3	B0	
	Any evaluation included in the answer must be correct		
	More than one correct answer eg 36 and 92	B1	
	Allow inclusion of 63 eg 36 and 63	B1	
	Inclusion of an incorrect answer eg 36 and 24	B0	

(B)

Q	Answer	Mark	Comments
12(b)	Any 2-digit number with at least one digit of 0	B1	eg 50 or −50 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 'by' or commas or 'and' eg 5 × 0 or 0 by 5 or 0 × 0 or 1, 0 or (0, 1) or 0, 0 or 2 and 0 or 0 and 2 or 0 and 0	 B1 B1 B1	
	Any evaluation included in the answer must be correct		
	More than one correct answer eg 20 and 30	B1	
	Inclusion of an incorrect answer eg 20 and 21	B0	

(C)

Q	Answer	Mark	Comments
12(c)	89 or 98 or 99	B1	condone 8.9 or 9.8 or 9.9
	Additional Guidance		
	Condone eg multiplication signs or 'by' or commas or 'and' eg 8 by 9 or 9 × 8 or 9 × 9 or (8, 9) or 9, 8 or 9, 9 or 8 and 9 or 9 and 8 or 9 and 9	 B1 B1 B1	
	Any evaluation included in the answer must be correct		
	More than one correct answer eg 89 and 98	B1	
	Inclusion of an incorrect answer eg 89 and 91	B0	

Q7. (2023)

Q	Answer	Mark	Comments
7(a)	Two even and two odd numbers and the numbers all different and the sum of the four numbers is 46	B2	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 sum of the four numbers is [36, 56]

Additional Guidance		
11 + 8 + 6 + 21		B2
30 + 10 + 3 + 3	(not all different)	B1
8 + 12 + 10 + 16	(no odds)	B1
10 + 16 + 1 + 11	(not 46 but in range)	B1
15 + 10 + 15 + 10	(not all different **and** not 46)	B0
3 + 5 + 7 + 29	(no evens **and** not 46)	B0
Negatives are acceptable for B1 or B2		
0 is an even number for B1 or B2, but a blank box does not imply 0		
Fractions and / or decimals are acceptable for four different numbers that sum to 46 for B1		
Mark the boxes		