Mark Scheme

Q1.

Question	Working	Answer	Notes
a		28	B1
b		1020	B1
c		−8	B1

(Q03 1MA1/1F/S2, Specimen papers)

Q2.

Question	Working	Answer	Mark	Notes
(a)		25	B1	for 25 (accept 5^2)
(b)		24	B1	cao
(c)		23, 29	B1	for 23 and 29 and no extras

(Q08 1MA1/2F, June 2017)

Q3.

Question	Answer	Mark	Mark scheme	Additional guidance
	−3, −1, 0, 2, 4	B1	for −3, −1, 0, 2, 4	Accept reverse order

(Q02 1MA1/2F, June 2019)

Q4.

Question	Answer	Mark	Mark scheme	Additional guidance
	14 < 21 4+7 = 103 − 92 $2^2 = 2 \times 2$ −3 > −5	B2 (B1	for all 4 correct for 2 or 3 correct)	

(Q10 1MA1/2F, June 2019)

Q5.

Question	Answer	Mark	Mark scheme	Additional guidance
	–7, –4, –2, 1, 8	B1	for –7, –4, –2, 1, 8	Accept reverse order 8, 1 –2, –4, –7

(**Q01 1MA1/2F, Nov 2019**)

Q6.

Question	Answer	Mark	Mark scheme	Additional guidance
	–6,–4,–3, 0,1, 2,7	B1	for –6, –4, –3, 0, 1, 2, 7	accept reverse order

(**Q05 1MA1/3F, Nov 2020**)

Q7.

Question	Answer	Mark	Mark scheme	Additional guidance
	–5, –2, 3, 7, 9	B1	cao	Accept in reverse order

(**Q05 1MA1/3F, June 2023**)

Q8.

Question	Answer	Mark	Mark scheme	Additional guidance
	–3 –1 2 4 7	B1	for –3 –1 2 4 7	Allow correct reverse order: 7 4 2 –1 –3

(**Q01 1MA1/2F, June 2024**)

Q9.

Question	Answer	Mark	Mark scheme	Additional guidance
	20	B1	cao	

(**Q02 1MA1/1F, Nov 2024**)

Q10.

Question	Answer	Mark	Mark scheme	Additional guidance
	3	B1	cao	

(Q05 1MA1/2F, Nov 2024)

Q11.

Question	Working	Answer	Mark	Notes
	172 × 34 5160 688+ 1 7 2 0/3 2/1 0/6 3 0/4 2/8 0/8 4 100 70 2 30 3000 2100 60 4 400 280 8 = 3000 + 2100 + 60 + 400 + 280 + 8	5848	M1 M1 A1	for complete method with relative place value correct (addition not necessary) for addition of all appropriate elements cao

(Q14 1MA1/1F/M3, Specimen papers)

Q12.

Question	Answer	Mark	Mark scheme	Additional guidance
	$\frac{23}{100}$	B1	oe	

(Q01 1MA1/3F, June 2024)

Q13.

Paper 1MA1: 1F			
Question	Working	Answer	Notes
(a)		example	C1 for appropriate example shown
(b)		example	C1 conclusion

(Q08 1MA1/1F/S1, Specimen papers)

Q14.

Paper 1MA1: 1F			
Question	**Working**	**Answer**	**Notes**
		15561	M1 for complete method with relative place value correct (addition not necessary) M1 for addition of all appropriate elements A1 cao

(Q09 1MA1/1F/S1, Specimen papers)

Q15.

Question	Answer	Mark	Mark scheme	Additional guidance
	13	B1	cao	

(Q03 1MA1/2F, Nov 2022)

Q16.

Question	Working	Answer	Mark	Notes
(a)		Don, Mersey, Trent, Thames, Severn	B1	accept 112, 113, 297, 346, 354
(b)		Shown	C1	shown with correct values eg (112 × 3 =) 336 (and 346) or 112 + 112 + 112 + 10 = 346 or 346 ÷ 3 = 115(.3..) (and 112) or 346 ÷ 112 = 3.089.. oe

(Q01 1MA1/3F, June 2017)

Q17.

Question	Answer	Mark	Mark scheme	Additional guidance
	−7, −2, −1, 0, 7	B1	cao	Accept reverse order

(Q01 1MA1/2F, Nov 2022)

Q18.

Paper 1MA1: 2F			
Question	Working	Answer	Notes
	458 – 72 = 386 386 ÷ 2 = 193	265	P1 for start to the process, eg. 458 – 72 A1 or 458 ÷ 2 (= 229) and 72 ÷ 2 (= 36)

(Q06 1MA1/2F/S1, Specimen papers)

Q19.

Question	Working	Answer	Mark	Notes
(a)	30 ÷ 8	4	P1	for 30 ÷ 8 **or** 3.75 **or** 3 **or** counting up 8s towards 30 to at least 3 lots of 8 **or** 4 × 8(=32) oe
			A1	cao
(b)		No with reason	C1	No with 32 ÷ 8 **or** ft from (a)

(Q11 1MA1/1F, Nov 2017)

Q20.

Paper 1MA1: 2F			
Question	Working	Answer	Notes
		eg. 1, 2, 18	P1 Starts process eg. Lists at least 2 multiples from 9, 18, 27, 36, 45 **or** lists at least 2 factors from 1, 2, 4, 5, 8, 10, 20, 40 P1 Continues process eg. gives a set of numbers whose sum is greater than 20 but less than 30 but numbers may not all be appropriate factors/multiples A1 Gives 3 numbers that meet all the criteria

(Q06 1MA1/2F/N, Specimen papers)

Q21.

Paper 1MA1: 3F			
Question	Working	Answer	Notes
		1230	P1 for start to process eg. 6760 – 3879 – 1241 (= 1640) P1 for use of fraction eg. "1640"÷4 or $1-\frac{1}{4}\left(=\frac{3}{4}\right)$ A1

(Q03 1MA1/3F/N, Specimen papers)

Q22.

Question		Working	Answer	Mark	Notes
			237	3	P1 starts process, e.g. $\frac{3}{5} \times 195$ oe (= 117) or $\frac{2}{3} \times (375 - 195)$ oe (= 120) P1 complete process A1 cao

(**Q08 1MA1/3F/M1, Specimen papers**)

Q23.

Paper 1MA1: 1F			
Question	Working	Answer	Notes
		17	P1 start to process information eg. 130 ÷ 8 or repeated subtraction from 130 or repeated addition A1 16.25 or 16 remainder 2 or 128 or 136 C1 allow ft - interprets answer to round up to integer value

(**Q05 1MA1/1F/N, Specimen papers**)

Q24.

Question	Working	Answer	Mark	Notes
		38	P1	for a process to begin the problem, e.g. 90% of 17 or number of bags per week (= 510)
			P1	(dep P1) for a complete process to find the number of perfect bags per week e.g. "510" × 0.9 (= 459)
			P1	(dep P1) for dividing the number of perfect bags by 12, e.g. "459" ÷ 12 (= 38.25)
			A1	38.25 or 38 given as the answer
			C1	ft For rounding their answer to a full number of boxes

(**Q15 1MA1/3F/M2, Specimen papers**)

Q25.

Question	Working	Answer	Mark	Notes
		65 and 130 or 53 and 106	P1 A1	for 65 or 53 used 65 and 130 or 53 and 106

(Q04 1MA1/3F/M2, Specimen papers)

Q26.

Question	Working	Answer	Mark	Notes
		500	M1 A1	recognition of 1.2 or 120% oe eg 600 ÷ 1.2 oe or $x \times 1.2 = 600$ oe or 120%=600 cao

(Q09 1MA1/1H, June 2017)

Q27.

Question	Working	Answer	Mark	Notes
		72	B1	cao

(Q02 1MA1/1F, Nov 2017)

Q28.

Question	Working	Answer	Mark	Notes
(i)		15	B1	cao
(ii)		196	B1	cao

(Q03 1MA1/3F, June 2017)

Q29.

Question	Working	Answer	Mark	Notes
		300	B1	for 300

(Q01 1MA1/2F/M2, Specimen papers)

Q30.

Question		Working	Answer	Mark	Notes
	(a)		9874	1	B1 cao
	(b)		4798	1	B1 cao

(**Q02 1MA1/1F/M1, Specimen papers**)

Q31.

Question	Answer	Mark	Mark scheme	Additional guidance
(a)	−6,−5,0,6, 12	B1	for −6,−5,0,6,12 accept 12, 6, 0, −5,−6	
(b)	0.078,0.708, 0.78,0.87	B1	for 0.078, 0.708, 0.78, 0.87 accept 0.87, 0.78, 0.708, 0.078	Accept any additional '0's at the end of a decimal, eg 0.780 or 0.870

(**Q02 1MA1/1F, June 2018**)