Assessment framework:

		Cognitive domain						
		Knowing (K)		Applying (A)		Reasoning (R)		TOTAL
Content area	Number, operations and relationships (NOR)	1(1), 2a(1), 2b(1), 2c(1), 2d(1), 2e(1), 2f(1), 2g(1), 4(1), 5(1)	10	3a(2), 3c(2), 3d(2), 6a(2), 6b(2)	9	3b(2), 7(2), 8(2)	6	25
	Patterns, functions & algebra (PFA)	9a(2)	2	10(2)	2	9b(1)	1	5
	Space & shape (SS)	11a(1), 11b(1), 12(1)	3	13(1), 14(1), 15(1)	3	16(1)	1	7
	Measurement (M)	17(1), 18(1), 19(1)	3	20(2), 22(1)	3	21(2)	2	8
	Data handling (DH)	23a(1), 23b(1)	2	24a(1), 24b(1)	2	24c(1)	1	5
	TOTAL	20		19		11		50

Memo:

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
1.	3	1 mrk: correct	NOR	K	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
2.a)	613	1 mrk: correct	NOR	K	1
2.b)	$15\frac{3}{8}$	1 mrk: correct	NOR	A	1
2.c)	23,9	1 mrk: correct	NOR	K	1
2.d)	4,1 or 4,10	1 mrk: correct	NOR	K	1
2.e)	0,004	1 mrk: correct	NOR	K	1
2.f)	1 900	1 mrk: correct	NOR	K	1
2.g)	1,3	1 mrk: correct	NOR	K	1
3.a)	$\frac{20}{21}$ *Possible working*: • $\frac{5}{7}+\frac{5}{21}=\frac{15}{21}+\frac{5}{21}$	2 mrks: correct or 1 mrk: correct working	NOR	A	2
3.b)	$\frac{8}{15}$ *Possible working*: • $\frac{1}{5}+\frac{1}{3}=\frac{3}{15}+\frac{5}{15}$	2 mrks: correct or 1 mrk: correct working	NOR	R	2
3.c)	49 *Possible working*: • $\frac{1}{12}$ of $84 = 7\ (84 \div 12)$; $\frac{7}{12}$ of $84\ (7 \times 7) = 49$	2 mrks: correct or 1 mrk: correct working	NOR	A	2

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
3.d)	39 *Possible working*: • 50% of $65 = 32{,}5$ and 10% of $65 = 6{,}5$; $32{,}5 + 6{,}5 = 39$ • 10% of $65 = 6{,}5$; $6{,}5 \times 6 = 6 \times 6 + 0{,}5 \times 6 = 36 + 3 = 39$ • $60\% = \frac{60}{100} = \frac{6}{10} = \frac{3}{5}$; $65 \div 5 \rightarrow 13 \times 3 \rightarrow 39$	2 mrks: correct or 1 mrk: correct working	NOR	A	2
4.	18	1 mrk: correct	NOR	K	1
5.	0,68	1 mrk: correct	NOR	K	1
6.a)	25	1 mrk: correct	NOR	A	1
6.b)	12 litres of yellow paint *Possible working*: • $42 \div 7 = 6$; $6 \times 2 = 12$ litres of yellow paint	2 mrks: correct or 1 mrk: correct working	NOR	A	2
7.	21 *Possible working*: • Options with each flavour (the amount subtracted each time increases because the combination has been included before): $(7-1)+(7-2)+(7-3)+(7-4)+(7-5)+(7-6) = 21$	2 mrks: correct or 1 mrk: correct working	NOR	R	2

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
8.	8 customers *Possible working*: • $6 \times 8 = 48 \therefore$ every 48th customer received an energy drink and towel; $48 \times 8 = 384$	2 mrks: correct or 1 mrk: correct working	NOR	R	2
9.a)	A: 20 B: 6	1 mrk: A correct 1 mrk: B correct	PFA	K	2
9.b)	Number of dots = Picture number $\times$ (Picture number $+1$)	1 mrk: correct	PFA	R	1
10.	A: $\div 6$ B: 120	1 mrk: A correct 1 mrk: B correct	PFA	A	2
11.a)	D1	1 mrk: correct	SS	K	1
11.b)	Library	1 mrk: correct	SS	K	1
12.	Heptagon	1 mrk: correct	SS	K	1
13.		1 mrk: correct	SS	A	1
13.	D	1 mrk: correct	SS	A	1
14.	6	1 mrk: correct	SS	A	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
16.	22	1 mrk: correct *Cube:* $3 \times 3 \times 3 = 27; 27 - 5$	SS	R	1
17.	0,87	1 mrk: correct	M	K	1
18.	400 metres	1 mrk: correct	M	K	1
19.	20	1 mrk: correct	M	K	1
20.	8 *Possible working:* • $4 + 1\frac{1}{2} + 1\frac{1}{2} + \frac{1}{2} + \frac{1}{2}$ • $12 - 1\frac{1}{2} - 1\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 	2 mrks: correct or 1 mrk: correct working	M	A	2
21.	41 ˚C *Possible working*: • 35 ˚C + 6 ˚C= 41 ˚C	2 mrks: correct or 1 mrk: correct working	M	R	2
22.	60	1 mrk: correct	M	A	1
23.a)	900	1 mrk: correct	DH	K	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
23.b)	450	1 mrk: correct	DH	K	1
24.a)	$\frac{3}{9}$	1 mrk: correct	DH	A	1
24.b)	10	1 mrk: correct	DH	A	1
24.c)	Left-handed people are better at playing computer games than right-handed people are.	1 mrk: correct	DH	R	1