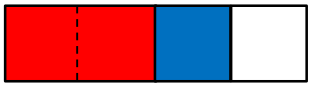
Assessment framework:

		Cognitive domain						
		Knowing (K)		Applying (A)		Reasoning (R)		TOTAL
Content area	Number, operations and relationships (NOR)	1(1), 2(1), 3(1) 4(1), 5a(1), 5b(1), 6a(2), 8a(1)	9	5c(1), 5d(1), 5e(1), 6b(2), 6c(2), 7(1), 8b(1)	9	9(2)	2	20
	Patterns, functions & algebra (PFA)	10(1), 11(1)	2	12(2)	2	13(2)	2	6
	Space & shape (SS)	14(1), 15(1), 16(1)	3	17(1), 18(1), 19(1)	3		0	6
	Measurement (M)	20(1), 21a(1), 21b(1), 25(1)	4	22(1), 23(2)	3	24(2)	2	9
	Data handling (DH)	27a(1)	1	27b(1)	1	26a(1), 26b(1)	2	4
	TOTAL	19		18		8		45

Memo:

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
1.	1 001	1 mrk: correct	NOR	K	1
2.	3 500	1 mrk: correct	NOR	K	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
3.	1,6	1 mrk: correct	NOR	K	1
4.	C	1 mrk: correct	NOR	K	1
5.a)	700	1 mrk: correct	NOR	K	1
5.b)	79	1 mrk: correct	NOR	K	1
5.c)	$\frac{2}{3}$	1 mrk: correct	NOR	A	1
5.d)	$4\frac{4}{5}$	1 mrk: correct	NOR	A	1
5.e)	1,8	1 mrk: correct	NOR	A	1
6.a)	810 *Possible working:* • $54 \times 10 = 540$; $54 \times 5 = 270$ and $540 + 270 = 810$	2 mrks: correct or 1 mrk: correct working	NOR	K	2
6.b)	$\frac{3}{4}$ *Possible working:* •  • $\frac{1}{4} + \frac{1}{2} = \frac{1}{4} + \frac{2}{4}$ $= \frac{3}{4}$	2 mrks: correct or 1 mrk: correct working	NOR	A	2

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
6.c)	21 *Possible working:* • $80 \div 4 = 20; 4 \div 4 = 1; 20 + 1 = 21$ • $84 \div 2 \rightarrow 42 \div 2 \rightarrow 21$	2 mrks: correct or 1 mrk: correct working	NOR	A	2
7.	15	1 mrk: correct	NOR	A	1
8.a).	10	1 mrk: correct	NOR	K	1
8.b)	30	1 mrk: correct C/A	NOR	A	1
9.	$\frac{1}{4}$ *Possible working:* • $1\frac{1}{2} + 1\frac{1}{2} \rightarrow 3 + 1\frac{1}{2} \rightarrow 4\frac{1}{2} + 1\frac{1}{2} \rightarrow 6$	2 mrks: correct or 1 mrk: correct working	NOR	R	2
10.	90	1 mrk: correct	PFA	K	1
11.	10	1 mrk: correct	PFA	K	1
12.	5 *Possible working:* • $P3 = 9;\ 9 + 3 \rightarrow 12 + 3 \rightarrow 15$ • $15 \div 3$	2 mrks: correct or 1 mrk: correct working	PFA	A	2

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
13.	36 *Possible reason:* • The pattern adds consecutive odd numbers • $12 + 3 \rightarrow 15 + 5 \rightarrow 20 + 7 \rightarrow 27 + 9 \rightarrow 36$	1 mrk: correct 1 mrk: reason	PFA	R	2
14.	hexagon	1 mrk: correct	SS	K	1
15.	2	1 mrk: correct	SS	K	1
16.	cylinders	1 mrk: correct	SS	K	1
17.	C and F	1 mrk: both correct and no other	SS	A	1
18.	A	1 mrk: correct	SS	A	1
19.		1 mrk: correct	SS	A	1
20.	centimetres or cm	1 mrk: correct	M	K	1
21.a)	3 500	1 mrk: correct	M	K	1
21.b)	$4\frac{1}{4}$ or 4,25	1 mrk: correct	M	K	1
22.	125	1 mrk: correct	M	A	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
23.	750 *Possible working:* • 2 litres = 2000 ml and 2000 ml – 1250 ml = 750 ml	1 mrk: correct	M	A	1
24.	500 *Possible working:* Jug A = 2500 ml; Jug B = 1500 ml 2500 ml – 1500 ml = 1000 ml; 1000 ml ÷ 2 = 500 ml	1 mrk: correct	M	R	2
25.	C	1 mrk: correct	M	K	1
26.a)	2	1 mrk: correct	DH	R	1
26.b)	6	1 mrk: correct	DH	R	1
27.a)	21	1 mrk: correct	DH	K	1
27.b)	18	1 mrk: correct	DH	A	1