Assessment framework:

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

Memo:

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
1.a)	6 000	1 mrk: correct	NOR	K	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
1.b)	$16\frac{1}{5}$ (or 16,2)	1 mrk: correct	NOR	K	1
2.a)	B	1 mrk: correct	NOR	A	1
2.b)	C	1 mrk: correct	NOR	A	1
3.a)	7000	1 mrk: correct	NOR	K	1
3.b)	1 700	1 mrk: correct	NOR	K	1
3.c)	402	1 mrk: correct	NOR	K	1
3.d)	42	1 mrk: correct	NOR	A	1
3.e)	5,6	1 mrk: correct	NOR	K	1
3.f)	2,74	1 mrk: correct	NOR	K	1
4.	$\frac{8}{5}$ and $\frac{7}{4}$	2 mrks: both correct and no other or 1 mrk: both correct and 1 other or 1 correct and no other	NOR	A	2
5.	30	1 mrk: correct	NOR	K	1
6.	17 *Possible working:* • R25 × 10 = R250; $R25 \times 5 = R125$; $R250 + R125 \rightarrow R375 + R25 \rightarrow R400 + R25 \rightarrow R425$ (adding another $R25$ will be more than $R440$)	2 mrks: correct or 1 mrk: working	NOR	A	2

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
7.	650 *Possible working:* • Half of R2600 $=$ R1300; Half of R1300 $=$ R650 • $R2600 = R2400 + R200$; $R2400 \div 4 = R600$ and $R200 \div 4 = R50$. $R600 + R50 = R650$	2 mrks: correct or 1 mrk: working	NOR	A	2
8.	6 *Possible working:* • $3\frac{1}{3} + 3\frac{1}{3} \rightarrow 6\frac{2}{3} + 3\frac{1}{3} \rightarrow 10 + 3\frac{1}{3} \rightarrow 13\frac{1}{3} + 3\frac{1}{3} \rightarrow 16\frac{2}{3} + 3\frac{1}{3} \rightarrow 20$	2 mrks: correct or 1 mrk: working	NOR	R	2
9.	8 *Possible working:* • 1 block $= 24\text{kg} \div 6 = 4\text{kg}$; Bag of marbles $= 4\text{kg} \times 2$	2 mrk: correct or 1 mrk: working	NOR	R	2
10.	A: -2 B: 12	1 mrk: A correct 1 mrk: B correct	PFA	A	2
11.a)	30	1 mrk: correct	PFA	K	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
11.b)	Number of dots = Picture number × (1 + Picture number) **and** Number of dots = Picture number × Picture number + Picture number	2 mrks: both correct and no other or 1 mrk: both correct and one other or 1 correct and no other.	PFA	R	2
12.a)	pentagonal-based pyramid	1 mrk: correct	SS	K	1
12.b)	6	1 mrk: correct	SS	A	1
12.c)	C	1 mrk: correct	SS	A	1
13.	B	1 mrk: correct	SS	K	1
14.	octagon	1 mrk: correct	SS	K	1
15.	A	1 mrk: correct	SS	A	1
16.	6	1 mrk: correct 	SS	R	1
17.	943	1 mrk: correct	M	K	1
18.	15: 50	1 mrk: correct	M	K	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
19.	7 minutes 35 seconds *Possible working:* • $2 + 1 + 3 = 6$ minutes; $23 + 58 + 14 = 1$ minute 35 seconds; 6 minutes $+$ 1 minute 35 seconds	2 mrk: correct or 1 mrk: working	M	A	2
20.	12	1 mrk: correct	M	K	1
21.	F	1 mrk: correct	M	A	1
22.	23	1 mrk: correct	M	A	1
23.	2090	1 mrk: correct	M	R	1
24.a)	125	1 mrk: correct	DH	K	1
24.b)	Chicken; Bacon; Onion; Mushroom; Pepper; Tomato	1 mrk: correct	DH	K	1
24.c)	125	1 mrk: correct	DH	A	1
24.d)	Meat toppings make up approximately half of the total votes counted	1 mrk: correct	DH	R	1