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), 6a(1), 6b(1), 6c(1), 6d(1), 6e(1)	9	5(2), 6f(1), 6g(1), 7a(2), 7b(2), 7c(2), 8a(2).	12	8b(2), 9(2)	4	25
	Patterns, functions & algebra (PFA)	10a(2)	2	10b(2), 10c(2)	4			6
	Space & shape (SS)	11a(1), 11b(1), 13(1)	3	12(1), 15(1)	2	14(1), 16(1)	2	7
	Measurement (M)	17a(1), 18(1)	2	19(2), 201(1)	3	21(2)	2	7
	Data handling (DH)	22a(1), 22b(1)	2	22c(2)	2	22d(1)	1	5
	TOTAL	20		21		9		50

Memo:

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
1.	$1\frac{1}{4}$	1 mrk: correct	NOR	K	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
2.	507 000	1 mrk: correct	NOR	K	1
3.	4	1 mrk: correct	NOR	K	1
4.	0,75	1 mrk: correct	NOR	K	1
5.	$\frac{3}{7}$ *Possible reason:* • $\frac{3}{7} < 1$-half, whereas $\frac{5}{9} > 1$-half *Another correct, but no expected reason:* • $\frac{3}{7} = \frac{27}{63}$ and $\frac{5}{9} = \frac{35}{63}$. Since $\frac{27}{63} < \frac{35}{63}$, $\frac{3}{7} < \frac{5}{9}$	1 mrk: correct 1 mrk: valid reason	NOR	A	2
6.a)	110 000	1 mrk: correct	NOR	K	1
6.b)	17 995	1 mrk: correct	NOR	K	1
6.c)	395	1 mrk: correct	NOR	K	1
6.d)	290 000	1 mrk: correct	NOR	K	1
6.e)	500	1 mrk: correct	NOR	K	1
6.f)	7,77	1 mrk: correct	NOR	A	1
6.g)	0,82	1 mrk: correct	NOR	A	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
7.a)	266 *Possible working:* • $1064 \div 2 \rightarrow 532 \div 2 \rightarrow 266$ • $1000 \div 4 = 250$ and $64 \div 4 = 16 \rightarrow 250 + 16 = 266$	2 mrks: correct or 1 mrk: correct working	NOR	K	2
7.b)	$\frac{7}{12}$ *Possible working:* • $\frac{1}{4} = \frac{3}{12}$; $\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$	2 mrks: correct or 1 mrk: correct working	NOR	A	2
7.c)	$1\frac{4}{5}$ or $1\frac{8}{10}$ Possible working: • $\frac{6}{10} + \frac{6}{10} + \frac{6}{10} = \frac{18}{10} = 1\frac{8}{10} = 1\frac{4}{5}$ • 6-tenths $\times 3 =$ 18-tenths	2 mrks: correct or 1 mrk: correct working	NOR	A	2
8.a)	25 Possible working: • $1\frac{1}{4} \times 20 \rightarrow 1 \times 20 = 20$and 1-quarter $\times 20 =$ 20-quarters $= 5 \rightarrow 20 + 5 = 25$	2 mrks: correct or 1 mrk: correct working	NOR	A	2

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
8.b)	16 Possible working: • $1\frac{1}{4}+1\frac{1}{4}\rightarrow 2\frac{1}{2}+1\frac{1}{4}\rightarrow 3\frac{3}{4}+1\frac{1}{4}\rightarrow 5$ She can make 4 large round candles from 5 ordinary candles ∴ 8 from 10 and 16 from 20.	2 mrks: correct or 1 mrk: correct working	NOR	R	2
9.	160 Possible working: • $\frac{3}{4}$ of an amount of money before she bought clothes = R90 ∴$\frac{4}{4}$ of an amount of money before she bought clothes = R120 Then, $\frac{3}{4}$ of an amount of money she received from her parents = R120 ∴$\frac{4}{4}$ of an amount of money she received from her parents = R160	2 mrks: correct or 1 mrk: correct working	NOR	R	2
10.a)	A: 12 B: 20	2 mrks: correct or 1 mrk: correct working	PFA	K	2

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
10.b)	Picture 8 *Possible working:* • P5 has 35 tiles. $35 + 5 \rightarrow 40 + 5 \rightarrow 45 + 5 \rightarrow 50$ • $50 - 10 \rightarrow 40 \div 5 \rightarrow 8$	1 mrk: correct 1 mrk: valid reason	PFA	A	2
10.c)	$\times 2; +10$	2 mrks: both correct and correct order or 1 mrk: one correct	PFA	A	2
11.a)	Pentagonal-based prism	1 mrk: correct	SS	K	1
11.b)	15	1 mrk: correct	SS	K	1
12.	B and C	1 mrk: both correct and no other	SS	A	1
13.	obtuse	1 mrk: correct	SS	K	1
14.	A	1 mrk: correct	SS	R	1
15.		1 mrk: correct	SS	A	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
16.		1 mrk: correct	SS	R	1
17.a)	8,509	1 mrk: correct	M	K	1
17.b)	4920	1 mrk: correct	M	K	1
18.	10 litres	1 mrk: correct	M	K	1
19.	14:00 *Possible working*: 5 hours + 2 hours = 7 hours→ 07:00 + 7 hours = 14:00.	2 mrks: correct or 1 mrk: correct working	M	A	2
20.	30	1 mrk: correct	M	A	1
21.	45 mins Possible working: • 16: 07 − 14: 58 = 69 mins → 69 mins − (16 mins + 8 mins) = 45 mins	2 mrks: correct or 1 mrk: correct working	M	R	2
22.a)	$\frac{4}{10}$ or $\frac{2}{5}$	1 mrk: correct	DH	K	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
22.b)	20	1 mrk: correct	DH	K	1
22.c)	165 Possible working: • $\frac{3}{10}$ of the children picked a Hamburger as their favourite meal. $\therefore \frac{3}{10}$ of $550 = 165$	2 mrks: correct or 1 mrk: correct working	DH	A	2
22.d)	3-quarters of the amount of children who picked pizza picked a hamburger as their favourite	1 mrk: correct	DH	R	1