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), 5(1), 6a(1), 6b(1)	7	6c(1), 7a(2), 7b(2), 9(2)	7	8(2)	2	16
	Patterns, functions & algebra (PFA)	10a(1), 11(2), 12a(1),	4	10b(1), 12b(1), 13(1), 14(2), 15(1)	6	16(2)	2	12
	Space & shape (SS)	17(1), 18a(1), 18b(1), 19(1), 21(1)	5	20(2), 22a(2)	4	22b(2)	2	11
	Measurement (M)	23(1)	1	24(2)	2	25(3)	3	6
	Data handling (DH)	26(2)	2	27(2)	2	28(1)	1	5
	TOTAL	19		21		10		50

Memo:

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
1.	$1\frac{1}{5}$	1 mrk: correct	NOR	K	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
2.	30%	1 mrk: correct	NOR	K	1
3.	False	1 mrk: correct	NOR	K	1
4.	49	1 mrk: correct	NOR	K	1
5.	8	1 mrk: correct	NOR	K	1
6.a)	23,85	1 mrk: correct	NOR	K	1
6.b)	12	1 mrk: correct	NOR	K	1
6.c)	R7,22	1 mrk: correct	NOR	A	1
7.a)	$4\frac{13}{16}$ *Possible working:* • $\frac{1}{2}=\frac{8}{16}; 7\frac{5}{16}-2 \rightarrow 5\frac{5}{16}-\frac{8}{16} \rightarrow 5-\frac{3}{16} \rightarrow 4\frac{13}{16}$	2 mrks: correct or 1 mrk: correct working	NOR	A	2
7.b)	72 *Possible working:* • 10% of $R480 = R48$; 5% of $R480 = R24$; $R48 + R24 = R72$	2 mrks: correct or 1 mrk: correct working	NOR	A	2
8.	60 *Possible working:* • Sweets sold $= 75 + 53 + 64 + 78 + 130 = 400$; Sweets not sold$= 1000 - 400 = 600$; $\frac{600}{1000}=\frac{60}{100}$	2 mrks: correct or 1 mrk: correct working	NOR	A	2

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
9.	1000 *Possible working:* • $\frac{1}{5}$ of her savings is $R200$; $200 \times 5 = 1000$	2 mrks: correct or 1 mrk: correct working	NOR	A	2
10.a)	50	1 mrk: correct	PFA	K	1
10.b)	Add consecutive odd numbers to get the next term in the pattern. E.g. $2 + 3 \rightarrow 5 + 5 \rightarrow 10 + 7 \rightarrow 17 + 9 \rightarrow 26$, so $37 + 13 = 50$	1 mrk: valid explanation	PFA	A	1
11.	A: $\times 3$ B: $+1$	2 mrks: correct	PFA	K	2
12.a)	12	1 mrk: correct	PFA	K	1
12.b)	$25 + 26 + 26$ or $3 \times 25 + 2$ or $11 + 22 \times 3$	1 mrk: valid explanation	PFA	A	1
13.	A	1 mrk: correct	PFA	A	1
14.	$A = 47$ $B = 20$	1 mrk: A correct 1 mrk: B correct	PFA	A	2
15.	$b = 4 \times (a - 1)$ or $b = 4(a - 1)$	1 mrk: correct	PFA	A	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
16.	$a = \frac{b}{2} + 3$ or $a = b \div 2 + 3$	2 mrks: correct	PFA	R	2
17.	Right-angled and Scalene	1 mrk: correct	SS	K	1
18.a)	5	1 mrk: correct	SS	K	1
18.b)	3,2	1 mrk: correct	SS	K	1
19.	$120°$	1 mrk: correct	SS	K	1
20.	33 *Possible working:* • $180 - (104 + 43) = 33°$	1 mrk: correct	SS	A	2
21.	Triangle A	1 mrk: correct	SS	K	1
22.a)	AE $= 3$ AD $= 4$	1 mrk: AE correct 1 mrk: AD correct	SS	A	2
22.b)	$60°$ *Possible working:* • $E\hat{B}A = 30°; A\hat{E}B = 90°; 180 - (30 + 90) = 60°$	1 mrk: correct 1 mrk: working	SS	R	2
23.	4	1 mrk: correct	M	K	1

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
24.	$900\ \text{cm}^2$ *Possible working:* • Area of $\Delta ABC = \frac{1}{2} \times 60 \times 30 = 900\ \text{cm}^2$	2 mrks: correct or 1 mrk: correct working	M	A	2
25.	$a = 11$; $b = 19$ and $c = 5$ *Possible working:* • Length of $a = 2c + 1$; Length of $b = 4c - 1$ $2c + 1 + 4c - 1 + c = 35$ $7c = 35$ $c = 5$	1 mrks: c correct 1 mrk: a and b correct 1 mrk: correct working	M	R	3
26.	20 *Possible working:* • Order of ages: 11; 15; 18; 20; 24; 25; 27	2 mrks: correct or 1 mrk: correct working	DH	K	2
27.	155 *Possible working:* • $1240 \div 8 =$ Half (Half (Half 1240) • $1240 \rightarrow 620 \rightarrow 310 \rightarrow 155$	2 mrks: correct or 1 mrk: correct working	DH	A	2

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
28.	22 years	1 mrk: correct *There are* 27 *people in the club. The median lies half way so it would lie about* 13th *or* 14th *position when the ages are ordered as they are in the histogram. The* 13th *and* 14th *position would be in the group* $21 - 25$ *years.*	DH	R	1