Assessment framework:

		Cognitive domain						
		Knowing (K)		Applying (A)		Reasoning (R)		TOTAL
Content area	Number, operations and relationships (NOR)	1(1), 2(1), 3(3), 4(1), 5a(1)	7	5b(1), 5c(1), 5d(1), 5e(1), 6(2), 7(2)	8	8(1), 9(2)	3	18
	Patterns, functions & algebra (PFA)	10(1)	1	11(1)	1	11(1)	1	3
	Space & shape (SS)	12(1), 13(1)	2	14(1)	1	15(1)	1	4
	Measurement (M)	16(1)	1	17(1), 18(1)	2		.	3
	Data handling (DH)	19a(1)	1	19(b)	1		·	2
	TOTAL	12		13		5		30

Memo:

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
1.	36	1 mrk: correct	NOR	K	(1)
2.	280	1 mrk: correct	NOR	K	(1)

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
3.a)	20; 40; **60**; 80; 100; 120; **140**; **160**; 180	1 mrk: all 3 values correct	NOR	K	(1)
3.b)	**3**; **6**; 9; 12; 15; 18; **21**; 24; 27; **30**; **33**	2 mrks: all 5 values correct OR 1 mrk: 3 or 4 values correct	NOR	K	(2)
4.	204	1 mrk: correct	NOR	K	(1)
5.a)	20	1 mrk: correct	NOR	K	(1)
5.b)	52	1 mrk: correct	NOR	A	(1)
5.c)	78	1 mrk: correct	NOR	A	(1)
5.d)	20	1 mrk: correct	NOR	A	(1)
5.e)	248	1 mrk: correct	NOR	A	(1)
6.	7 *Possible working:* • A primitive drawing of 42 children arranged in groups of 6. There should be 7 groups. • A more efficient drawing/number strategy showing $6 + 6 + 6 \ldots 7$ times • $6 + 6 \rightarrow 12 + 6 \rightarrow 18 + 6 \rightarrow 24 + 6 \rightarrow 30 + 6 \rightarrow 36 + 6 \rightarrow 42$	2 mrks: correct or 1 mrk: correct working	NOR	A	(2)

<table>
<tr><th>Question</th><th>Correct solution(s)</th><th>Comment</th><th>Content area</th><th>Cognitive domain</th><th>Mark allocation</th></tr>
<tr><td>7.</td><td>1 and 1-fifth (or $1\frac{1}{5}$)

Possible working:
• A drawing of 5 children with a full chocolate (or the number 1) given to each child and a sixth chocolate that is cut up into 5 pieces.</td><td>2 mrks: correct
or
1 mrk: correct working</td><td>NOR</td><td>A</td><td>(2)</td></tr>
<tr><td>8.</td><td>144</td><td>1 mrk: correct</td><td>NOR</td><td>R</td><td>(1)</td></tr>
<tr><td>9.</td><td>9

Possible working:
• $45 - 27 = 18$; Half $18 = 9$
• $45 + 27 = 72$; Half $72 = 36$; $36 - 27 = 9$</td><td>2 mrks: correct
or
1 mrk: correct working</td><td>NOR</td><td>R</td><td>(2)</td></tr>
<tr><td>10.</td><td>385 ; 390</td><td>1 mrk: both correct</td><td>PFA</td><td>K</td><td>(1)</td></tr>
<tr><td>11.</td><td><table><tr><td>No. of R5 coins</td><td>1</td><td>2</td><td>4</td><td>6</td><td>9</td></tr><tr><td>Rand</td><td>5</td><td>10</td><td>20</td><td>30</td><td>45</td></tr></table></td><td>1 mrk: R20 correct
1 mrk: 9 coins correct</td><td>PFA</td><td>A (R20) & R (9 coins)</td><td>(2)</td></tr>
<tr><td>12.</td><td>
☐ ☐ ☑ ☐ ☐</td><td>1 mrk: correct</td><td>SS</td><td>K</td><td>(1)</td></tr>
</table>

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
13.		1 mrk: BOTH correct and no extra	SS	K	(1)
14.		1 mrk: BOTH correct and no extra	SS	A	(1)
15.		1 mrk: correct	SS	R	(1)

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
16.	Width of a doorway	1 mrk: correct	M	K	(1)
17.		1 mrk: correct	M	A	(1)
18.	Quarter to 7	1 mrk: correct *Do not penalise for spelling error*	M	A	(1)
19.a)	12	1 mrk: correct	DH	K	(1)
19.b)	4	1 mrk: correct	DH	A	(1)