

Assessment framework:

		Cognitive domain						
		Knowing (K)		Applying (A)		Reasoning (R)		TOTAL
Content area	Number, operations and relationships (NOR)	1(1), 2(2), 3(1), 4(1), 5a(1), 5c(1), 5d(1)	8	5b(1), 5e(1), 5f(1), 5g(1), 5h(1), 6(2), 7(2), 8(2)	11	9(1), 10(2), 11(2)	5	24
	Patterns, functions & algebra (PFA)	12a(1), 13(1)	2	12b(1)	1	12c(1)	1	4
	Space & shape (SS)	14(1), 15(1)	2	16(1), 17(1)	2	18(1)	1	5
	Measurement (M)	19(1), 21(1)	2	20(1), 22(1)	2	23(2)	2	6
	Data handling (DH)		.	24(1)	1		.	1
	TOTAL		14		17		9	40

Memo:

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
1.	345	1 mrk: correct	NOR	K	(1)

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
2.a)	42; 54	1 mrk: both correct	NOR	K	(1)
2.b)	1100; 1110; 1150	1 mrk: all correct	NOR	K	(1)
3.	3 052	1 mrk: correct	NOR	K	(1)
4.	2002; 2020; 2200; 2202	1 mrk: correct order	NOR	K	(1)
5.a)	70	1 mrk: correct	NOR	K	(1)
5.b)	14	1 mrk: correct	NOR	A	(1)
5.c)	13	1 mrk: correct	NOR	K	(1)
5.d)	24	1 mrk: correct	NOR	K	(1)
5.e)	140	1 mrk: correct	NOR	A	(1)
5.f)	8	1 mrk: correct	NOR	A	(1)
5.g)	$1\frac{2}{5}$ (Also accept 1 and 2-fifths)	1 mrk: correct	NOR	A	(1)
5.h)	$8\frac{2}{3}$ (Also accept 8 and 2-thirds)	1 mrk: correct	NOR	A	(1)
6.	<p>51</p> <p><i>Possible working:</i></p> <ul style="list-style-type: none"> $73 + 7 \rightarrow 80 + 20 \rightarrow 100 + 24 \rightarrow 124; 7 + 20 + 24 = 51$ (<i>This can also be illustrated on a number line</i>) $124 - 70 \rightarrow 54 - 3 \rightarrow 51$ 	<p>2 mrks: correct</p> <p>or</p> <p>1 mrk: correct working</p>	NOR	A	(2)

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation
7.	<p>220</p> <p><i>Possible working:</i></p> <ul style="list-style-type: none"> • $55 + 55 + 55 + 55 = 220$ • $50 \times 4 + 5 \times 4 = 200 + 20 = 220$ • Double 55 = 110; double 110 = 220 	<p>2 mrks: correct</p> <p>or</p> <p>1 mrk: correct working</p>	NOR	A	(2)
8.	<p>33</p> <p><i>Possible working:</i></p> <ul style="list-style-type: none"> • A drawing with 5 friends and each “friend” receiving a number of marbles until a total of 165 marbles are given out. • $168 = 150 + 18$, $150 \div 5 = 30$ and $18 \div 5 = 3$ remainder 3 	<p>2 mrks: correct</p> <p>or</p> <p>1 mrk: correct working</p> <p><i>There are 3 marbles remaining</i></p>	NOR	A	(1)
9.	765	1 mrk: correct	NOR	R	(1)
10.	<p>62</p> <p><i>Possible working:</i></p> <ul style="list-style-type: none"> • $280 - 156 = 124$; Half 124 = 62 • $280 + 156 = 436$; Half 436 = 218; $218 - 156 = 62$ 	<p>2 mrks: correct</p> <p>or</p> <p>1 mrk: correct working</p>	NOR	R	(2)

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation												
11.	12 <i>Possible working:</i> <ul style="list-style-type: none"> A drawing of 3 “metres” with each metre cut into four pieces. There should be a total of 12 pieces. $\frac{1}{4} + \frac{1}{4} \rightarrow \frac{2}{4} + \frac{1}{4} \rightarrow \frac{3}{4} + \frac{1}{4} \rightarrow 1 + \frac{1}{4} \rightarrow 1\frac{1}{4} + \frac{1}{4} \rightarrow 1\frac{2}{4} + \frac{1}{4} \rightarrow 1\frac{3}{4} + \frac{1}{4} \rightarrow 2 + \frac{1}{4} \rightarrow 2\frac{1}{4} + \frac{1}{4} \rightarrow 2\frac{2}{4} + \frac{1}{4} \rightarrow 2\frac{3}{4} + \frac{1}{4} \rightarrow 3$ 	2 mrks: correct or 1 mrk: correct working	NOR	R	(2)												
12.a)	125; 150	1 mrk: both correct	PFA	K	(1)												
12.b)	562; 567	1 mrk: both correct	PFA	A	(1)												
12.c)	35; 47	1 mrk: both correct	PFA	R	(1)												
13.	<table border="1"> <tr> <td>Packets of sweets</td> <td>1</td> <td>2</td> <td>4</td> <td>5</td> <td>8</td> </tr> <tr> <td>Rand</td> <td>6</td> <td>12</td> <td>24</td> <td>30</td> <td>48</td> </tr> </table>	Packets of sweets	1	2	4	5	8	Rand	6	12	24	30	48	1 mrk: both correct	PFA	K	(1)
Packets of sweets	1	2	4	5	8												
Rand	6	12	24	30	48												
14.	A, C and D	1 mrk: all 3 correct and no other	SS	K	(1)												
15.	cone	1 mrk: correct	SS	K	(1)												
16.	A and D	1 mrk: BOTH correct and no extra	SS	A	(1)												
17.	C	1 mrk: correct	SS	A	(1)												
18.	C	1 mrk: correct	SS	R	(1)												

Question	Correct solution(s)	Comment	Content area	Cognitive domain	Mark allocation																		
19.	Quarter to 3	1 mrk: correct <i>Do not penalise for spelling error</i>	M	K	(1)																		
20.	20 minutes to 11 (am)	1 mrk: correct <i>Do not penalise for spelling error</i>	M	A	(1)																		
21.	Width of doorway	1 mrk: correct	M	K	(1)																		
22.	30°C	1 mrk: correct	M	A	(1)																		
23.	Half past 11 (or 11:30) <i>Possible working:</i> <table border="1" data-bbox="353 833 656 1145"> <thead> <tr> <th>School A</th> <th>School B</th> </tr> </thead> <tbody> <tr><td>08:00</td><td>08:00</td></tr> <tr><td>08:30</td><td>08:35</td></tr> <tr><td>09:00</td><td>09:10</td></tr> <tr><td>09:30</td><td>09:45</td></tr> <tr><td>10:00</td><td>10:20</td></tr> <tr><td>10:30</td><td>10:55</td></tr> <tr><td>11:00</td><td>11:30</td></tr> <tr><td>11:30</td><td></td></tr> </tbody> </table>	School A	School B	08:00	08:00	08:30	08:35	09:00	09:10	09:30	09:45	10:00	10:20	10:30	10:55	11:00	11:30	11:30		2 mrks: correct or 1 mrk: correct working	M	R	(2)
School A	School B																						
08:00	08:00																						
08:30	08:35																						
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10:00	10:20																						
10:30	10:55																						
11:00	11:30																						
11:30																							
24.	8	1 mrk: correct	DH	A	(1)																		