

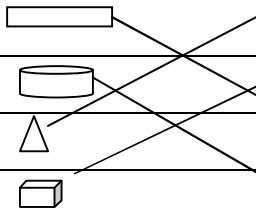
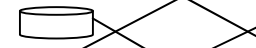
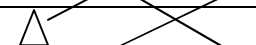
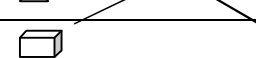
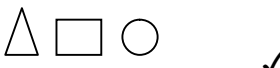

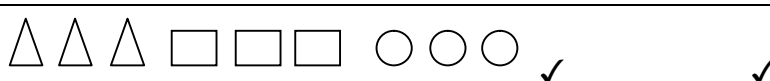


This memorandum consists of 8 pages.

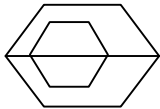
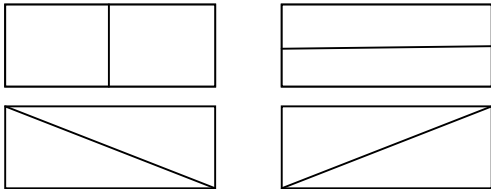
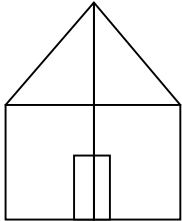
**General marking notes:**

1. Give full marks for answers only, unless otherwise stated.
2. Accept any alternative correct method that is not included in the memorandum except the 'vertical column' method, unless otherwise stated.


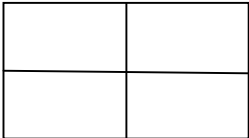
QUESTION	EXPECTED ANSWER(S)		MARK(S)	TOTAL
1.1	D ✓		1	4
1.2	C ✓		1	
1.3	935, 539, 533, 335, 137 ✓		1	
1.4	24, 27, 30, 51, 64, 99 ✓		1	
2.1	C ✓		1	3
2.2	700+60 ✓		1	
2.3	B ✓		1	
3.1	C ✓		1	3
3.2	B ✓		1	
3.3	c. or 52 ✓		1	
4.1	C ✓		1	3
4.2	D ✓		1	
4.3	270 ✓		1	
5.1	D ✓		1	3
5.2	C ✓		1	
5.3	b. ✓		1	
6.1	D ✓		1	4
6.2	c ✓                      b ✓                      d ✓                      a ✓		1 mark each	
7.1	a.	Cube ✓	Do not penalise for spelling	2
	b.	Triangle ✓		

7.2			Triangle ✓	1	4
			Cube ✓	1	
			Rectangle✓	1	
			Cylinder ✓	1	
7.3	a.	Accept any 2-D shape ✓		1	2
	b.	Accept any 3-D object ✓		1	
8.1				1	3
8.2				1	
8.3				1	
9.1a.		<div><math>689 - 237</math> <math>= 600 + 80 + 9 - 200 + 30 + 7</math> <math>= 600 + 80 + 9 - 200 + 30 + 7</math> ✓ <math>= 400 + 50 + 2</math> <math>= 452</math> ✓ or</div> <div><math>9 - 7 = 2</math> <math>80 - 30 = 50</math> ✓ <math>600 - 200 = 400</math> <math>689 - 237 = 452</math> ✓ or</div> <div>✓ <math>689 - 200 \rightarrow 489 - 30 \rightarrow 459 - 7 \rightarrow 452</math> ✓ 1 mark for the method and 1 mark for the answer</div>		2	
9.1b.		<div><math>2 + 6 = 8</math> <math>80 + 10 = 90</math> ✓ <math>300 + 400 = 700</math> <math>382 + 416 = 798</math> ✓ or</div> <div>✓ <math>382 + 400 \rightarrow 782 + 10 \rightarrow 792 + 6 \rightarrow 798</math> ✓ 1 mark for the method and 1 mark for the answer.</div>			

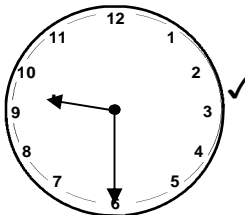
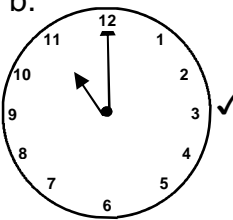
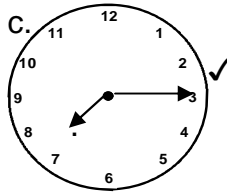
9.1c.		<div> <math>39 \div 3</math>  <math>30 \div 3 = 10 \checkmark</math>  <math>9 \div 3 = 3</math>  <math>10 + 3 = 13 \checkmark</math> </div> <p>1 mark for the method and 1 mark for the answer.</p>	2	4
9.1d.		<div> <math>23 \times 2</math>  <math>20 \times 2 = 40 \checkmark</math>  <math>3 \times 2 = 6</math>  <math>40 + 6 = 46 \checkmark</math> </div> <p>1 mark for the method and 1 mark for the answer.</p>	2	
10.	a.	122; <b>142</b> ; 162; <b>182</b> ; 202; <b>222</b> ; <b>242</b> . $\checkmark$	1	4
	b.	475; 450; 425; <b>400</b> ; <b>375</b> ; <b>350</b> ; <b>325</b> . $\checkmark$	1	
	c.	173; 172; 171; <b>170</b> ; <b>169</b> ; 168; 167 ; <b>166</b> . $\checkmark$	1	
	d.	195; 190; <b>185</b> ; <b>180</b> ; 175 ; <b>170</b> , 165. $\checkmark$	1	
11.1		Four hundred and sixty-eight $\checkmark$	1 mark each	4
11.2		<div> <math>134 \rightarrow</math> two hundred <math>\checkmark</math>  <math>200 \rightarrow</math> sixty-seven <math>\checkmark</math>  <math>145 \rightarrow</math> one hundred and thirty-four <math>\checkmark</math>  <math>67 \rightarrow</math> one hundred and forty-five <math>\checkmark</math> </div>		
11.3		D $\checkmark$	1	3
11.4		309 $\checkmark$	1	
11.5		C $\checkmark$	1	
11.6	a.	199 $\checkmark$	1	2
	b.	78 $\checkmark$	1	
12.1		700 or 7 Hundred $\checkmark$	1	5
12.2	a.	5 T / 5 tens $\checkmark$	1	
	b.	4U / 4 units $\checkmark$	1	

12.3	a.	600 /6 hundred/six hundred ✓	1	6
	b.	9 /nine ✓	1	
13.1.		605✓	1	
13.2	a.	189 ✓	1	
	b.	200✓	1	
	c.	73✓	1	
13.3	a.	100 + 30 + 6 ✓	1	6
	b.	30 + 6✓	1	
14.1	a.	406 ; 404 ; 402 ; 400✓	1	
	b.	132 ; 135 ; 138 ; 141✓	1	
14.2	a.	890 ; 910 ; 930 ; 950✓ Rule: Counting forwards in 20s✓	1 1	
	b.	396 ; 400 ; 404 ; 408✓ Rule: Counting forwards in 4s✓	1 1	
15.1		 <p>There is only one line of symmetry ✓</p>	1	3
15.2		 <p>Accept any of the above. ✓</p>	1	
15.3		 <p>✓</p>	1	
16.1		3 cm✓	1	4
16.2	a.	centimetres✓	1	
	b.	kilograms✓	1	
	c.	litres✓	1	

17.1	a.	kilograms✓	1	7
	b.	millilitres✓	1	
17.2	a	8✓	1	
	b	20✓	1	
	c	10✓	1	
	d	3✓	1	
17.3	5 <i>ml</i> ; 250 <i>ml</i> ; 500 <i>ml</i> ; 1 / ✓		1	
18.1	<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <math display="block">\begin{aligned} &amp; \checkmark \\ \text{Number of wheels} &amp;= 3+3+3+3+3 \\ &amp;= 15 \checkmark \end{aligned}</math> </div> <p style="text-align: center;">or</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <math display="block">\begin{aligned} \text{Total} &amp;= 3 \times 5 \checkmark \\ &amp;= 15 \checkmark \end{aligned}</math> </div> <p>1 mark for any relevant method and 1 mark for the answer.</p>		2	2
18.2	<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <math display="block">\begin{aligned} (45 + 40) &amp;\div 4 \checkmark \\ &amp;= 85 \div 4 \\ &amp;= (40 + 40 + 5) \div 4 \\ &amp;= 10 + 10 + 1 + 1 \text{ left over} \\ &amp;= 21 \text{ and } 1 \text{ left over } \checkmark \end{aligned}</math> </div> <p style="text-align: center;">or</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <math display="block">\begin{aligned} &amp;45 \div 4 + 40 \div 4 \\ &amp;= 11 \text{ rem } 1 + 10 \checkmark \\ &amp;= 21 \text{ rem } 1 \checkmark \end{aligned}</math> </div> <p>1 mark for calculation and 1 mark for the answer.</p>		2	2

18.3	<div> <math>99 \div 3 = 33</math> ✓ </div> <p>or</p> <div> <math>90 \div 3 = 30</math>  <math>9 \div 3 = 3</math> ✓  <math>30 + 3 = 33</math> ✓ </div> <p>1 mark for calculation and 1 mark for the answer.</p>	2	2
18.4	<div> <math>138 - 22</math>  <math>= 100 + 30 + 8 - 20 - 2</math>  <math>= 100 + 30 - 20 + 8 - 2</math> ✓  <math>= 100 + 10 + 6</math>  <math>= 116</math> ✓ </div> <p>or</p> <div> ✓  <math>138 - 20 \rightarrow 118 - 2 \rightarrow 116</math> ✓ </div> <p>1 mark for the calculation and 1 mark for the answer.</p>	2	2
19.1	<div>  </div> <p>✓</p>	1	2
19.2	<div>  </div> <p>✓</p>	1	



24.2	30 minutes /half an hour✓	1	5	
24.3	<div>a. </div> <div>b. </div> <div>c. </div>	1 mark each		
25.1	13 <sup>th</sup> 14 <sup>th</sup> 15 <sup>th</sup> ✓ 22 <sup>nd</sup> 24 <sup>th</sup> 25 <sup>th</sup> ✓	2	7	
25.2	21 <sup>st</sup> 22 <sup>nd</sup> 23 <sup>rd</sup> 24 <sup>th</sup> 26 <sup>th</sup> 27 <sup>th</sup> 28 <sup>th</sup> ✓	1		
25.3	1st	twenty-second✓		4
	22nd	fourteenth✓		
	23rd	first✓		
	14th	twenty-third✓		