



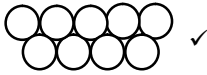


Important information:

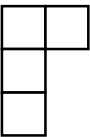
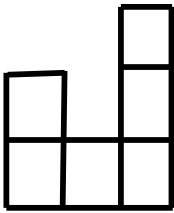
1. Give full marks for answers only, unless otherwise stated.
2. Accept any alternative correct solution that is not included in the memorandum.

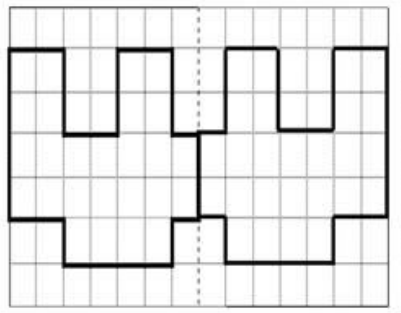
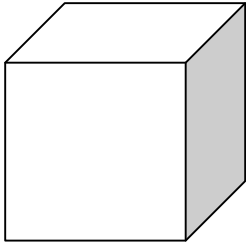
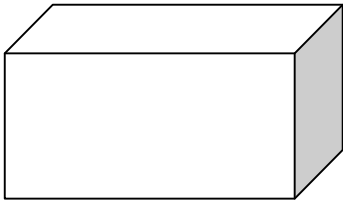
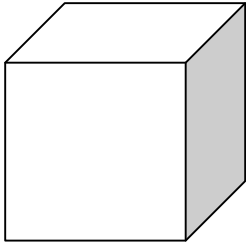
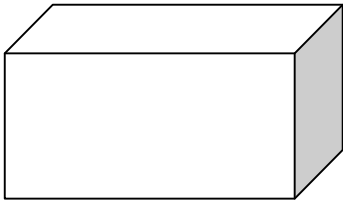
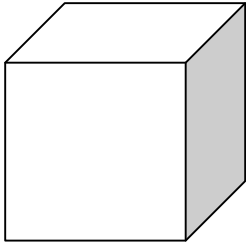
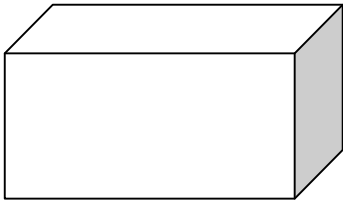
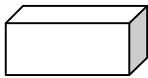
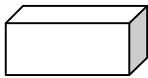
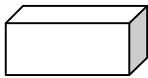
This memorandum consists of 7 pages.

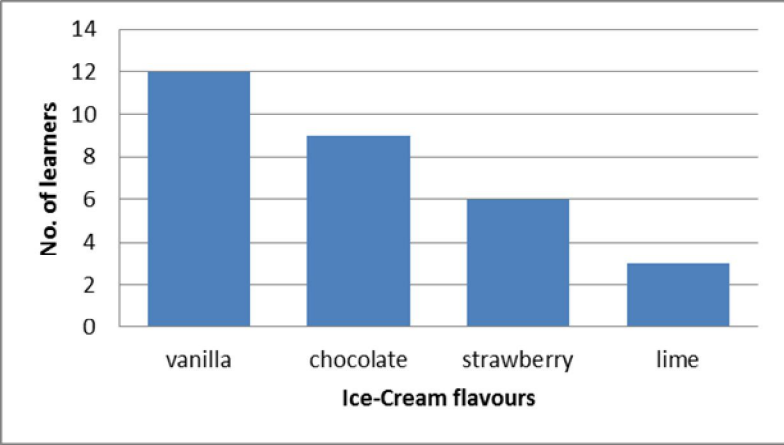
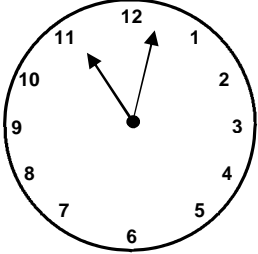
Question	Expected Answer	Clarification	Mark allocation
1.	1.1	B	1
	1.2	C	1
	1.3	B	1
	1.4	D	1
	1.5	A	1
	1.6	B	1
	1.7	A	1
	1.8	B	1
	1.9	B	1
	1.10	C	1
	1.11	B	1
	1.12	B	1
	1.13	A	1
	1.14	D	1
	1.15	A	1
	1.16	B	1
	1.17	B	1
	1.18	A	1
	1.19	D	1
2.	2.1	72 000	1
	2.2	72 000	1
3.	124 000		1
4.	4.1	29 620	1
	4.2	30 000	1
5.	5.1	(110 x 10)	1
	5.2	745	1
	5.3	4 310	1
6.	$2(5 + 3) = (2 \times 5) + (2 \times 3)$ $= 10 + 6$ $= 16$		3
7.	40		1
8.	$4 \frac{3}{4}$; $4 \frac{2}{4}$		1
9.	705 ; 707		
	Rule: Add 2.		2
10.	>		1
11.	<u>10</u>		
	<u>14</u>		1
12.	15		1
13.	13.1	21 984	Arrangement of values: 1 mark Correct answer: 1 mark
		3 285	
		<u>14 319</u>	
		<u>39 588</u>	
			2

	<p>or</p> $21\ 984 = 20\ 000 + 1\ 000 + 900 + 80 + 4$ $3\ 285 = \quad\quad\quad 3\ 000 + 200 + 80 + 5$ $+ 14\ 319 = 10\ 000 + 4\ 000 + 300 + 10 + 9$ $\text{Sum} = 30\ 000 + 9\ 000 + 500 + 80 + 8$ $= 39\ 588$		
	<p>or</p> $20\ 000 + 1\ 000 + 900 + 80 + 4 + 3\ 000 + 200 + 80 + 5 + 10\ 000 + 4\ 000 + 300 + 10 + 9$ $= 20\ 000 + 10\ 000 + 1\ 000 + 3\ 000 + 4\ 000 + 900 + 200 + 300 + 80 + 80 + 10 + 4 + 5 + 9$ $= 30\ 000 + 9\ 000 + 500 + 80 + 8$ $= 39\ 588$		
13.2	$\begin{array}{r} 2\ 8\ 9\ 7\ 4\ 1 \\ + 4\ 6\ 2\ 3\ 0\ 6 \\ \hline 7\ 5\ 2\ 0\ 4\ 7 \end{array}$ <p>or</p> $200\ 000 + 80\ 000 + 9\ 000 + 700 + 40 + 1$ $+ 400\ 000 + 60\ 000 + 2\ 000 + 300 + 0 + 6$ $700\ 000 + 50\ 000 + 2\ 000 + 0 + 40 + 7 = 752\ 047$		2
13.3	$\begin{array}{r} 57\ 436 \\ + 23\ 521 \\ \hline 80\ 957 \end{array}$		2
13.4	$\begin{array}{r} 94\ 736 \\ - 65\ 829 \\ \hline 28\ 907 \end{array}$ <p>or</p> $94\ 736 = 80\ 000 + 13\ 000 + 1\ 700 + 20 + 16$ $- 65\ 829 = 60\ 000 + 5\ 000 + 800 + 20 + 9$ $\text{Difference} = 20\ 000 + 8\ 000 + 900 + 7$ $= 28\ 907$ <p>or</p> $= 90\ 000 + 4\ 000 + 700 + 30 + 6 - 60\ 000 - 5\ 000 - 800 - 20 - 9$ $= 80\ 000 - 60\ 000 + 13\ 000 - 5\ 000 + 1\ 700 - 800 + 20 - 20 + 16 - 9$ $= 20\ 000 + 8\ 000 + 900 + 0 + 7$ $= 28\ 907$	Arrangement of values: 1 mark Correct answer: 1 mark	2
13.5	$\begin{array}{r} 46\ 436 \\ - 26\ 762 \\ \hline 19\ 674 \end{array}$		2
13.6	$\begin{array}{r} 745 \\ \times 63 \\ \hline 2\ 235 \\ + 44\ 700 \\ \hline 46\ 935 \end{array}$ <p>or $745 \times 63 = 745 \times 9 \times 7 = (745 \times 60) + (745 \times 3)$ $= 6\ 705 \times 7 = 44\ 700 + 2\ 235$ $= 46\ 935$</p> <p>or $745 \times (60 + 3) = 745 \times 60 + 745 \times 3$ $= 44\ 700 + 2\ 235$ $= 46\ 935$</p>	A mark for each correct step. A mark for the correct answer	3
13.7	$\begin{array}{r} 237 \\ \times 42 \\ \hline 474 \\ + 9\ 480 \\ \hline 9\ 954 \end{array}$ <p>237×42 $237 \times 7 \times 6$ $= 1\ 659 \times 6$ $= 9\ 954$</p>		3

13.8	$\begin{array}{r} 876 \\ \times 64 \\ \hline 3504 \\ + 52560 \\ \hline 56064 \end{array}$		3
13.9	$\begin{array}{r} 141 \\ 6 \overline{)846} \checkmark \\ \underline{-6} \\ 24 \\ \underline{-24} \\ 6 \checkmark \\ \underline{-6} \\ 0 \end{array}$ <p>or $846 \div 6$ $= (600 + 240 + 6) \div 6 \checkmark$ $= (600 \div 6) + (240 \div 6) + (6 \div 6)$ $= 100 + 40 + 1 \checkmark$ $= 141 \checkmark$</p>	Correct quotient: 1 mark Correct calculation: 2 marks	3
13.10	$\begin{array}{r} 14 \\ 54 \overline{)756} \\ \underline{-54} \\ 216 \\ \underline{-216} \\ 000 \end{array}$		2
13.11	$5\frac{1}{7} + 10\frac{2}{7} = 15 + \left(\frac{1}{7} + \frac{2}{7}\right) = 15\frac{3}{7}$	Answer only, give full marks	2
13.12	$3\frac{5}{12} - \frac{7}{12} = 2 + \frac{17}{12} - \frac{7}{12} = 2 + \frac{10}{12} = 2\frac{5}{6}$	Answer only, give full marks 1 mark for operation 1 mark for 2+ 1 mark for correct answer	3
13.13	$9 + \frac{12}{3} = 9 + \frac{4}{1} = 10\frac{4}{1}$		3
13.14	$\frac{3}{5} \times \frac{45}{1} = 3 \times 9 = 27$		2
13.15	$\begin{aligned} 9\frac{3}{12} - 1\frac{4}{12} \\ = \frac{111}{12} - \frac{16}{12} \\ = \frac{95}{12} \\ = 7\frac{11}{12} \end{aligned}$		2
14.			1
15.			2
16.			1

17.	13✓ 7 ✓	13 (Rule $4 = 3 \times 1 + 1$, $7 = 3 \times 2 + 1$, $10 = 3 \times 3 + 1$) $13 = 3 \times 4 + 1$ $(22-1) \div 3$	1 1
18.	40 and 10		2
19.	7 and 33		2
20.	2 12		2
21.	✓✓ Number of kilometres = $120 \times 6 = 720$	Identifying correct operation: 1 mark Correct product: 1 mark Statement: 1 mark (do not penalise if statement is not given)	1 1
22.	$1\ 763 \div 43 = 41$ bags		2
23.	$\begin{array}{r} 2\ 364 \\ -1\ 403 \\ \hline 961 \end{array}$ Number of flowers = 961 or Number of flowers = $2\ 364 - 1\ 403$ $= 1\ 000 + 1\ 300 + 60 + 4 - 1\ 000 - 400 - 3$ $= 1\ 000 - 1\ 000 + 1\ 300 + 60 + 4 - 3$ $= 900 + 60 + 1$ $= 961$		2
24.	$(12 \times n) + 7 = 115$ ✓	Any place holder is correct	1
25.	25.1 Number of learners = $5 + 23$ or $x = 5 + 23$ 25.2 Number of sweets each = $(36 - 4) \div 2$ or $x = (36 - 4) \div 2$ 25.3 Number of lipsticks = 20×5 or $x = 20 \times 5$ 25.4 Fourth number = $20\ 500 - (2\ 341 + 578 + 10\ 690)$		4
26.	Discount = $R179,95 - R145,95 = R34,00$		2
27.	27.1 Johannesburg ✓ 27.2 30°C ✓		1 1
28.	2°C		1
29.	✓ 		1
30.			1

31	Translated		1									
32	Reflection or Flipping		1									
33			2									
34	Hexagonal pyramid✓ Hexagon ✓and triangles✓		3									
35	<table border="1"> <thead> <tr> <th>3-D object</th> <th>Name of 3-D object</th> <th>The name(s) of the shape(s) of the faces</th> </tr> </thead> <tbody> <tr> <td></td> <td>Cube</td> <td>Squares</td> </tr> <tr> <td></td> <td>Rectangular prism</td> <td>Rectangles</td> </tr> </tbody> </table>		3-D object	Name of 3-D object	The name(s) of the shape(s) of the faces		Cube	Squares		Rectangular prism	Rectangles	4
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	2	4	Rectangular prism									
37	37.1	Walk ✓	1									
	37.2	$\frac{1}{4}$ ✓	1									
	37.3	Number of learners = $\frac{1}{8} \times \frac{40}{1}$ ✓ = 5 learners ✓	2									
	37.4	Number of learners = $20 - 5$ ✓ = 15 ✓	2									

38		<p style="text-align: center;">Learners' favourite ice cream flavours</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <caption>Data for Learners' favourite ice cream flavours</caption> <thead> <tr> <th>Ice-Cream flavour</th> <th>No. of learners</th> </tr> </thead> <tbody> <tr> <td>vanilla</td> <td>12</td> </tr> <tr> <td>chocolate</td> <td>9</td> </tr> <tr> <td>strawberry</td> <td>6</td> </tr> <tr> <td>lime</td> <td>3</td> </tr> </tbody> </table>	Ice-Cream flavour	No. of learners	vanilla	12	chocolate	9	strawberry	6	lime	3	3					
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SABC 1	I	6																
SABC 2		2																
SABC 3		3																
e TV	II	7																
40	19:16 ✓		1															
41	15:00 to 16:00 = 1h ✓ 16:00 to 16:45 = 45 mins Time taken = 1h 45 mins ✓		2															
42	22:40		1															
43			2															
44	14 /✓ and 250 m/✓		2															
45	200 cm		1															
46	14 ✓✓		2															