

MEMORANDUM

TOTAL: 100 Marks

Question	Expected answer(s)		Marks
SECTION A			
Question 1			
1.1	B ✓		1
1.2	C ✓		1
1.3	A ✓		1
1.4	A ✓		1
1.5	D ✓		1
SECTION B			
Question 1			
a.	4 x 10 000 or 40 000 or 4 x 10Th or forty thousand ✓	Any of the given options : 1 mark	1
b.	60 000 ✓		1
c.	Simplify: $10 + 4 \div 2 = 10 + 2 = 12$ ✓		1
d.	Fill in the correct operational sign: $10 \div 2 + 4 = 9$ ✓		1
e.	$(14 \div 2) + (51 - 48) = 10$ ✓	10 : 1 mark	1
f.	$2^3 = (2)(2)(2) = 8$ ✓		1
g.	$\sqrt{16}$, $16 = 2 \times 2 \times 2 \times 2$ $\therefore \sqrt{16} = 2 \times 2 = 4$ ✓ ✓		2
h.	28, 35, 42, 49 ✓	1 mark for ALL	1
i.	4,01 ; 4,3 ; 4,5 ; 4,8 ✓	1 mark : correct order / sequence	1
Question 2			
2.1	$\frac{2}{3} > \frac{1}{2}$ ✓		1
2.2. a	$\frac{2}{3} - \frac{1}{6}$ (Write your answer in the simplest form) $= \frac{2}{3} \left(\frac{2}{2} \right) - \frac{1}{6}$ $= \frac{4}{6} - \frac{1}{6}$ ✓ $= \frac{3}{6} = \frac{1}{2}$ ✓		3

2.2.b	$2\frac{2}{3} + 1\frac{2}{5}$ (Leave your answer in improper form) $= \frac{8}{3} + \frac{7}{5}$ ✓ $= \frac{8}{3} \left(\frac{5}{5}\right) + \frac{7}{5} \left(\frac{3}{3}\right)$ ✓ $= \frac{40}{15} + \frac{21}{15}$ ✓ $= \frac{61}{15}$ ✓	4
2.2.c	$5\frac{1}{3} \times \frac{3}{8} = \frac{16}{3}$ ✓ $\times \frac{3}{8} = 2$ ✓	2
2.2.d	$\frac{3}{4}$ of 28 $\frac{3}{4} \times \frac{28}{1}$ ✓ = 21 ✓	2
Question 3		
3.1	Thousand/1000 ✓	1
3.2.a	6,5 – 2,34 6,50 <i>Correct method</i> ✓ $\begin{array}{r} 6,50 \\ -2,34 \\ \hline 4,16 \end{array}$ ✓	2
b	$0,06 \times 0,3$ $\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$ ✓ 0,018 ✓ (for 18) ; correct decimal place	2
c	$3,7 \times 1,4$ $\begin{array}{r} 37 \\ \times 14 \\ \hline 370 \\ + 148 \\ \hline 518 \end{array}$ ✓ Answer: 5,18 ✓	3
Question 4		
4.1.a	$-7 > -8$ ✓	1
4.1.b	$-7 = -8 + 1$ ✓	1
4.2.a	$-18 - 13 = -31$ ✓	1
4.2.b	$8 + (-27) = -19$ ✓	1
4.2.c	$-75 - (-25) = -75 + 25 = -50$ ✓	1
4.2.d	$\frac{24}{3} = \frac{3}{3}r$ ✓ $r=8$ ✓	2
4.2.e	$14+x=16-8$ $x=8-14$ ✓ $x=-6$ ✓	2
Question 5		
5.1.a	$14 + \boxed{-6} = 16 - 8$ ✓	1

5.1.b	$24 = 3 \times \boxed{8}$ ✓	1																		
5.2	$(18 + 12) \div 2 = 15$ ✓	1																		
5.3 a	i) $z=6$ ✓ ii) $y=16$ ✓ Check: $9(6)=54$ ✓ Check: $16-4=12$ ✓	4																		
Question 6																				
6.1	a. $\times 3$ ✓ b. $+1$ ✓ c. T_n ✓ = $3n + 1$ ✓	5																		
6.2	a. B & C ✓ b. Translation ✓ c. 6 down 8 left ✓✓	4																		
6.3	$A = 50$ ✓ Fig 1: $1 \times 2 + 2 \times 3 = 8$ Fig 2: $2 \times 3 + 3 \times 4 = 18$ Fig 3: $3 \times 4 + 4 \times 5 = 32$ Fig 4: $4 \times 5 + 5 \times 6 = 50$	1																		
Question 7																				
a.i	16 ✓	1																		
ii	13;14;14;15;15;15;16;16;16;16;16;17;17 ✓	1																		
iii	16 ✓✓	2																		
iv	$17 - 13 = 4$ ✓	1																		
v	mean = $\frac{13+14(2)+15(3)+16(5)+17(2)}{13}$ ✓ = $\frac{200}{13}$ ✓ = 15,3846 ✓ = 15,4 ✓	4																		
vi	<table border="1"> <thead> <tr> <th>DAYS / No. of learners</th><th>Tally</th><th>Frequency</th></tr> </thead> <tbody> <tr> <td>13</td><td>I</td><td>1 ✓</td></tr> <tr> <td>14</td><td>II</td><td>2 ✓</td></tr> <tr> <td>15</td><td>✓ III</td><td>3 ✓</td></tr> <tr> <td>16</td><td>IIII</td><td>5 ✓</td></tr> <tr> <td>17</td><td>II</td><td>2 ✓</td></tr> </tbody> </table>	DAYS / No. of learners	Tally	Frequency	13	I	1 ✓	14	II	2 ✓	15	✓ III	3 ✓	16	IIII	5 ✓	17	II	2 ✓	6
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vii	Frequency Learners per day	5																		

b.	i) Stem and leaf ✓ ii) 17 ✓ iii) 61 ✓ iv) 37 ✓ v) $\text{mean} = \frac{17 + 19 + 22 + 25 + 26 + 32 + 35 + 37 + 38 + 43 + 44 + 45 + 55 + 59 + 61}{15}$ $= 37,2 \checkmark$	6												
Question 8														
	a) $\frac{6}{20}$ or $\frac{3}{10}$ ✓ b) $\frac{20}{20}$ or 1 ✓ c) $\frac{10}{20}$ or $\frac{1}{2}$ ✓	3												
Question 9														
	a) 10: 20 or 1 : 2 ✓ b) 2 ✓ c) i) 6 : 4 or 3 : 2 ✓ ii) $1\frac{1}{2}$ ✓	4												
Question 10														
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