

# THE SIPRO MOCK 2023

## MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Random No.						Personal No.		

Index No.

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

School Random No: \_\_\_\_\_

District ID: \_\_\_\_\_

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: **A** and **B**.
2. Section **A** has **20** questions (**40 Marks**).
3. Section **B** has **12** questions (**60 Marks**).
4. Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or **ink**. Only diagrams and graph work must be done in **pencil**.
6. Unnecessary **alteration/crossing** of work will lead to loss of marks.
7. Any **handwriting** that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated:

"FOR EXAMINER'S USE ONLY"

For Examiner's Use Only;

PAGES	MARKS	INITIALS
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Page 10		
Page 11		
Total		

Please turn over



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## SECTION A: 40 MARKS

Questions 1 to 20 carry **two** marks each

1. Work out:  $\frac{7}{9} - \frac{5}{9}$

2. Write in **figures**; Seven thousand, four hundred thirty-three.

3. **Simplify**:  $3k + 2y - 4k + 5y + 7k$

4. Work out the **LCM** of 12 and 36.

5. Work out:  $9 \overline{)2763}$

6. Find the **next two** numbers in the sequence.

1, 3, 6, 10, 15, \_\_\_\_\_, \_\_\_\_\_

7. Jumba **deposited sh. 200,000** in a bank that offers an interest rate of  $7\frac{1}{2}\%$  per month for  $1\frac{1}{3}$  years. How much **interest** did he receive?



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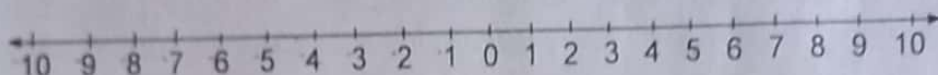
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8. What base two number has been expanded to give:

$$(1 \times 100)_{\text{two}} + (1 \times 10)_{\text{two}} + (1 \times 1)_{\text{two}} ?$$

9. The subsets that can be formed from set N are  $\emptyset$ ,  $\{1\}$ ,  $\{2\}$ ,  $\{1, 2\}$ .  
Find the number of **proper subsets** that can be formed from set N.

10. Show:  $-3 + +5$  on the number line below.



11. Work out: years months

$$\begin{array}{r} 7 \quad 05 \\ -2 \quad 10 \\ \hline \end{array}$$

12. Fill in the two missing **equivalent** whole numbers.

$$2(\text{finite } 7) = 2, 9, 16, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

13. Change 4800 metres into dm.



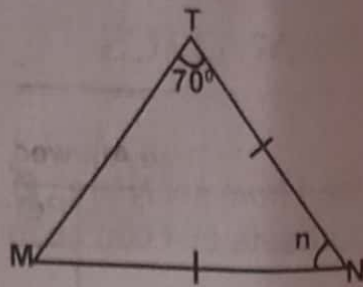
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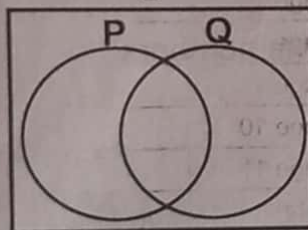
14. The figure below is a triangle **MTN**. Find the **value** of **n** in degrees.



15. Subtract  $3k - 5$  from  $7k + 2$ .

16. Express **0.0082** in standard form.

17. Shade  $(P \cap Q)^c$  in the venn diagram below.

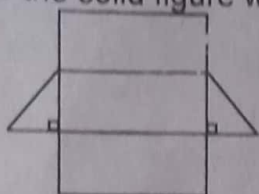


18. Walusansa scored the following **points** in a game:  
6, -7, 8, 0 and -10. Find the range of score.



19. The bursar of Step by Step Junior School made a money withdrawal of ten thousand shillings notes numbered consecutively from MK 5648 to MK 5690 from a bank. How much was her withdrawal?

20. Name the solid figure whose net is drawn below.



### SECTION B: 60 MARKS

Marks for each part of the question are indicated in the brackets.

21. The table below shows the arrival and departure time for a bus which travelled from Iganga to Masaka. Study and use it to answer the questions that follow.

TOWN	ARRIVAL TIME	DEPARTURE TIME
Iganga		8:30am
Jinja	9:10am	9:20am
Kampala	10:25am	10:35am
Masaka	12:00 noon	

- a) At what **time** did the bus leave for Jinja?

(01 mark)

- b) Express the arrival time in Masaka in a 24 hour clock system.

(01 mark)

- c) How long did the bus take to **travel** from Iganga to Masaka?

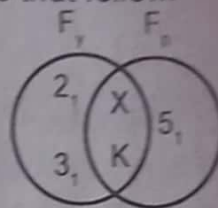
(02 marks)



- 22.a) Four pieces of wire measuring 48m, 36m, 24m and 60m are to be cut into an exact number of pieces without wastage. What is the length of the longest piece of wire that can be cut from each wire?

(02 marks)

Study the prime factors on the venn diagram below and use it to answer the questions that follow.



- b) Given that the GCF of  $F_Y$  and  $F_P$  is 6, find the;  
i) LCM of  $F_Y$  and  $F_P$

(02 marks)

ii) value of Y.

(02 marks)

23. The interior angle sum of a regular polygon is  $720^\circ$ .

a) Name the polygon.

(03 marks)

- b) Find its number of;  
i) triangles

(02 marks)



ii) right angles

(02 marks)

24. 50% of the pupils in the class are above 12 years. 20% of the remainder are 11 years and the rest are below 11 years.

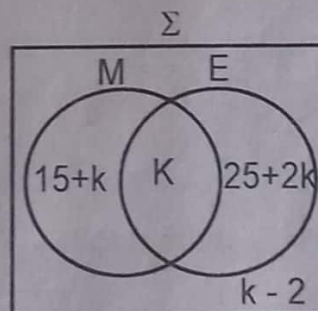
a) What percentage of children are below 11 years?

(03 marks)

b) If 12 pupils are below 11 years, how many pupils are in the class?

(02 marks)

25. The venn diagram below shows the number of pupils who like Mathematics (M) and English (E) at St Andrew's Molly Foundation School - Pabo.



If the **difference** between the number of pupils who don't like Mathematics and that of those who like it is 13;

a) Find the value of  $K$ .

(03 marks)





b) What is  $n(M \cup E)$ ?

(02 marks)

c) If a pupil is chosen randomly from this school as the head prefect, what is the probability that they like maths?

(01 mark)

26. Wasswa is four times as old as his son. In 6 years time, the difference in their ages will be 30 years.

a) How old is Wasswa now?

(03 marks)

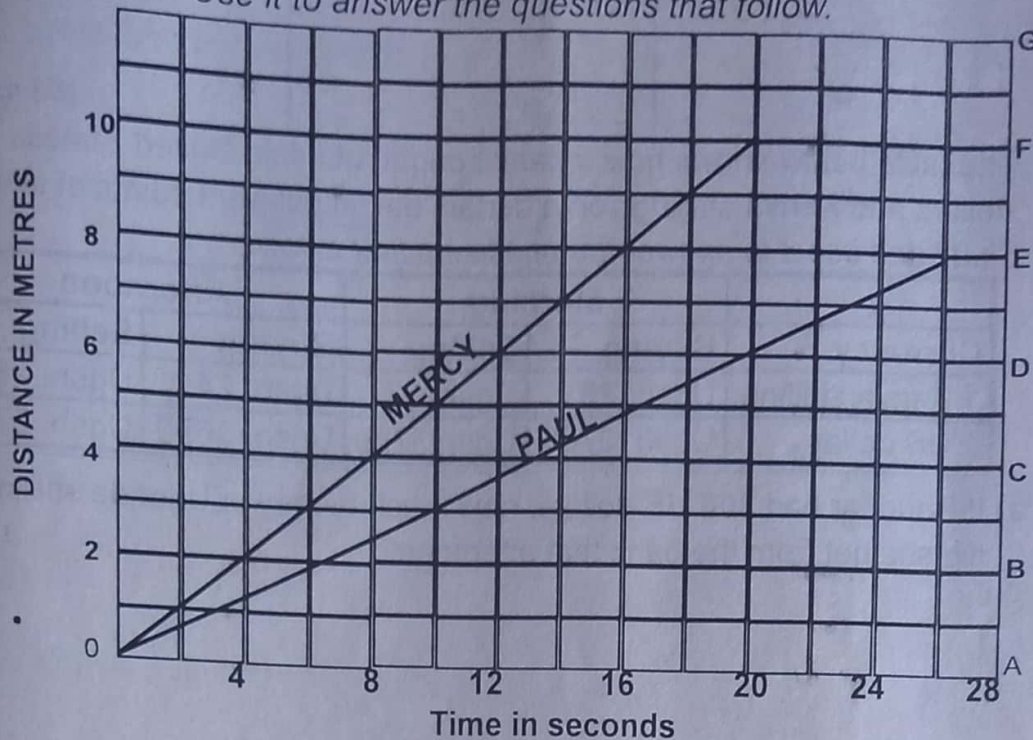
b) How old was Wasswa's son 3 years ago?

(02 marks)





27. The graph below shows the distance covered by two babies Mercy and Paul. Use it to answer the questions that follow.



a) Find the time each baby took to cover a distance of 6m.

i) Paul \_\_\_\_\_

ii) Mercy \_\_\_\_\_

(02 marks)

b) How far was Paul by the time Mercy reached point F?

(01 mark)

c) What **distance** did Paul cover in **16 seconds**?

(01 mark)

28. The sum of the **values** in the table below are the same vertically, horizontally and diagonally.

9	t	7
4	k	8
n	10	3

a) Find the **magic** sum.

(01 mark)



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IONS.

b) Work out the value of;

(i) n

(ii) t

(iii) k

(03 marks)

29. The table below shows how a bank bought and sold United States dollars and Kenya shillings on a certain day at different points of time. Study and use it to answer the questions that follow.

Currency	Morning		Afternoon	
	Buying	Selling	Buying	Selling
1 Kenya shilling	Ugsh. 25	Ugsh. 27	Ugsh. 24	Ugsh. 28
1 US dollar	Ugsh. 3700	Ugsh. 3750	Ugsh. 3690	Ugsh. 3760

a) If Raudhar had **300 US dollars**, how much money in Uganda shillings did she get from the bank that afternoon?

(02 marks)

b) Given that Ruto has **18000 Kenya shillings**, how many **US dollars** did he get from this bank if this transaction took place at around 9:30am?

(04 marks)



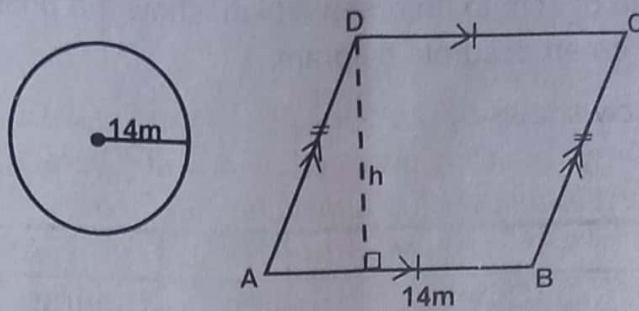
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30. The diagram below shows a parallelogram ABCD and a circle of radius 14m. If the area of the parallelogram is  $\frac{1}{4}$  of the area of the circle, find the value of  $h$ .



(04 marks)

- 31.a) Round off **347** to the nearest tens.

(02 marks)

- b) Expand **4219** using exponents.

(02 marks)



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32. Town P is 60km east of town Q. Town R is 50km from town P on a bearing of  $240^\circ$ .

a) Using a scale of 1cm to represent 10km, show the position of the **three** towns on an accurate diagram.

(04marks)

b) Find the **shortest** distance between town R and town Q.

(01mark)



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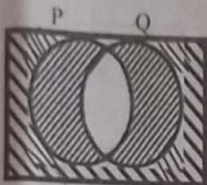
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# THE SIPRO MOCK MATHEMATICS MARKING GUIDE – 2023

NO.	LEVEL	SOLUTION	AWARD	REASON	TECHNICAL ADVICE
1.	P.2	$\frac{7}{9} - \frac{5}{9} = \frac{2}{9}$	B <sub>2</sub>	For correct answer	Operate fractions with different denominators.
2.	P.3	$\begin{array}{r} 7,000 \\ +433 \\ \hline 7,433 \end{array}$	M <sub>1</sub> A <sub>1</sub>	For the method. For the answer.	Revisit writing figures in words.
3.	P.5	$\begin{array}{l} 3k + 2y - 4k + 5y + 7k \\ 3k + 7k - 4k + 2y + 5y \\ 10k - 4k + 7y \\ 6k + 7y \end{array}$	B <sub>1</sub> B <sub>1</sub>	For collecting like terms For the answer.	Encourage candidates to apply the rules of integers in collecting like terms.
4.	P.4	$\begin{array}{r} 2 \times 2 = 4 \\ 3 \times 3 = 9 \\ \hline 4 \times 9 = 36 \end{array}$ (2 x 2) x (3 x 3) 4 x 9 36	M <sub>1</sub> A <sub>1</sub>	For the method. For the answer.	Accept the candidate who has used the multiples.
5.	P.6	$\begin{array}{r} 307 \\ 9 \overline{) 2763} \\ \underline{27} \phantom{00} \\ 06 \\ \underline{0} \phantom{00} \\ 63 \\ \underline{63} \phantom{00} \\ 00 \end{array}$	B <sub>2</sub>	For the answer	Revisit converting Hindu Arabic to Roman numerals.
6.	P.5	$\begin{array}{ccccccc} 1 & 3 & 6 & 10 & 15 & 21 & 28 \\ \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow & \swarrow \\ 2 & 3 & 4 & 5 & 6 & 7 & \end{array}$	B <sub>1</sub> B <sub>1</sub>	For 21 For 28	Accept 1,3,6,10,15,21,28 (triangular numbers)
7.	P.6	$\begin{array}{l} SI = P \times R \times T \\ \text{Sh } 200,000 \times \frac{15}{100} \times \frac{4}{3} \\ \text{Sh } 200,000 \times \frac{15}{100} \times \frac{4}{3} \\ \text{Sh } 2,000 \times 10 \\ \text{Sh } 20,000 \end{array}$	M <sub>1</sub> A <sub>1</sub>	For the method. For the answer.	Help candidates to understand the meaning of the terms used e.g. principle, rate and time.
8.	P.7	$\begin{array}{r} 100_{\text{two}} \\ 10_{\text{two}} \\ + 1_{\text{two}} \\ \hline 111_{\text{two}} \end{array}$	B <sub>2</sub>	For the answer	Accept any other method leading to correct answer.
9.	P.7	Set N = {1, 2} Proper subsets = 2 <sup>n</sup> - 1 2 <sup>2</sup> - 1 (2 x 2) - 1 4 - 1 = 3 proper subsets	M <sub>1</sub> A <sub>1</sub>	For the method. For the answer.	Make a review on listing proper subsets.
10.	P.5	$\begin{array}{c} \xrightarrow{+5} \\ \xleftarrow{-3} \\ \begin{array}{ccccccccccc} -3 & -2 & -1 & 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \end{array} \\ \xrightarrow{-2} \end{array}$	B <sub>1</sub> B <sub>1</sub>	For +5 For -2	Encourage candidates to count gaps when using a number line.

11.	P.4	<div>Years <math display="block">\begin{array}{r} 2 \\ -2 \\ \hline 4 \end{array}</math></div> <div>months <math display="block">\begin{array}{r} 05 \quad 12 + 5 \\ 10 \quad -17 \\ \hline 07 \end{array}</math></div>	B <sub>1</sub>	For the method.	Make a review on operation of time, weeks and days etc.
			B <sub>1</sub>	For the answer.	
12.	P.6	2(finite 7) = 2, 9, 16 23, 30	B <sub>1</sub>	For 23	Operate numbers using finite system and apply the dial.
			B <sub>1</sub>	For 30	
13.	P.5	10m = 1dm 1m = 1 dm 10 4800m = (1 x 4800)dm 10 = 480dm	M <sub>1</sub>	For the method.	Revisit metric conversion.
			A <sub>1</sub>	For the answer.	
14.	P.7	$n + 70^\circ + 70^\circ = 180^\circ$ $n + 140^\circ - 140^\circ = 180^\circ - 140^\circ$ $n = 40^\circ$	M <sub>1</sub>	For the method.	Expose candidates to figures with properties.
			A <sub>1</sub>	For the answer.	
15.	P.6	$7k + 2 - (3k - 5)$ $7k + 2 - 3k + 5$ $7k - 3k + 2 + 5$ $4k + 7$	M <sub>1</sub>	For the method.	Help candidates to apply the rules of integers.
			A <sub>1</sub>	For the answer.	
16.	P.7	$0.0082 \times 10 = 00.082$ $00.082 \times 10 = 000.82$ $000.82 \times 10^{-3} = 8.2$ $= 8.2 \times 10^{-3}$	M <sub>1</sub>	For the method.	Make a review on $8.2 \times 10^{-3}$ to the original number.
			A <sub>1</sub>	For the answer.	
17.	P.7	(P∩Q) <sup>c</sup> 	B <sub>2</sub>	For the answer	Make a review on set descriptions
18.	P.6	Range = H- L 8-10 8-(-10) 8+10 = 18	M <sub>1</sub>	For the method.	Encourage candidates to make use of multiplier rules.
			A <sub>1</sub>	For the answer.	
19.	P.6	Mk 5 6 9 <sup>s</sup> 10 Mk 5 6 4 8 42+1 43  43 x sh 10,000 Sh 430,000	B <sub>1</sub>	For 43 notes	Help candidates to understand why one is added.
			B <sub>1</sub>	For the answer	
20.	P.6	triangular prism	B <sub>2</sub>	For the answer	Expose candidates to all solid shapes with their nets.
SECTION B					
21.	P.7	a) At 9 : 20am	B <sub>1</sub>	For the answer	Make a review on timetables in both 12 and 24 hour clock system.
		(b) Midday = 12 : 00 hours	B <sub>1</sub>	For the answer	
		(c) Hours min 12 <sup>h</sup> : 00 <sup>min</sup> 3 : 30 -8 : 00              + : 30 3 : 30                4 : 00	M <sub>1</sub>	For the method.	
			A <sub>1</sub>	For the answer.	

22.	P.6	It takes 4 hours					M <sub>1</sub>	For the method.	Expose candidates to application of L.C.M
		a) 2	48m	36m	24m	60m			
		2	24	18	12	30			
		2	12	9	6	15			
		2	6	9	3	15			
	3	3	9	3	15				
	3	1	3	1	5				
	5	1	1	1	5				
	1	1	1	1	1				
	(2 x 2) x (2 x 2) x (3 x 3) x 5 (4 x 4) x (9 x 5) 16 x 45 = 720m					A <sub>1</sub>	For the answer		
P.5	b) (i) L.C.M = P <sub>1</sub> x U x F <sub>n</sub> (2 x 3) x 6 x 5 (6 x 6) x 5 36 x 5 180					M <sub>1</sub>	For the method.		
						A <sub>1</sub>	For the answer.		
	(ii) y = (2 x 3) x 6 = 6 x 6 = 36					B <sub>2</sub>	For the answer		
23.	P.7	a) 1800 (n-2) = int < sum 180° (n - 2) = 720° 180 n - 360° = 720° 180°n - 360° + 360° = 720° + 360° 180°n = 1080° 180°n = 1080° <del>180°n = 1080°</del> <del>180°</del> <del>180°</del> 180° = 180° n = 6 The polygon is hexagon.				B <sub>1</sub>	For the equation	Make a review on interior and exterior angles.	
						B <sub>1</sub>	For 6 sides		
						B <sub>1</sub>	For naming the polygon		
		b) i) n - 2 6 - 2 = 4 triangles				B <sub>1</sub>	For the answer		
		ii) 2(n - 2) 2(6 - 2) 2 x 4 8 right angles				B <sub>1</sub>	For the answer		
24.	P.7	a)				B <sub>1</sub>	For 50%	Follow through candidate's work.  Accept any other method leading to correct answer.	
		Above 12yrs	remainder	11years	below 11yrs	B <sub>1</sub>	For 10%		
		50%	100% - 50% 50%	20% of 50% 20 x 50% 100 10%	50 - 10% 40%	B <sub>1</sub>	For 40%		
		40% of children below 11years.							



		(b) 40% rep 12 pupils 1% rep $\frac{12}{40}$ 100% rep $\frac{12}{40} \times 100$ $= \frac{12}{40} \times 100$ $= 30$ pupils	M <sub>1</sub>	For the method													
			A <sub>1</sub>	For the answer													
25	P.7	a) $(25 + 2k + k - 2) - (15 + k + k) = 13$ $25 + 3k - 2 - 15 - 2k = 13$ $25 - 2 - 15 + 3k - 2k = 13$ $23 - 15 + k = 13$ $8 + k = 13$ $8 - 8 + k = 13 - 8$ $k = 5$  (b) $15 + k + k + 25 + 2k$ $15 + 25 + k + k + 2k$ $40 + 4k$ $40 + (4 \times 5)$ $40 + 20$ $60$ $n(\text{MUE}) = 60$  c) Probability = $\frac{n(E)}{n(s-s)}$ $n(E) = 15 + 5 + 5$ $= 25$ $n(s-s) = 60$ Probability = $\frac{25}{60}$	B <sub>1</sub>	For the equation	Make a review on algebra basing on collecting like terms.												
			B <sub>1</sub>	For the method													
			B <sub>1</sub>	For 5													
			B <sub>1</sub>	For the method													
			B <sub>1</sub>	For n(MUE)													
			B <sub>1</sub>	For the answer													
26	P.7	Let the son's age be w. <table border="1"> <tr> <th></th><th>Wasswa</th><th>son</th><th>total</th></tr> <tr> <td>now</td><td>4w</td><td>w</td><td></td></tr> <tr> <td>In 6yrs</td><td>4w + 6</td><td>w + 6</td><td>30</td></tr> </table> $4w + 6 - w + 6 = 30$ $4w - w + 6 + 6 = 30$ $3w + 12 = 30$ $3w + 12 - 12 = 30 - 12$ $3w = 18$ $\frac{3w}{3} = \frac{18}{3}$ $w = 6$ Wasswa = 4w $= 4 \times 6$ $= 24$ years  b) (6 - 3) years 3 years		Wasswa	son	total	now	4w	w		In 6yrs	4w + 6	w + 6	30	B <sub>1</sub>	For the equation.	Make enough practice on related questions
	Wasswa	son	total														
now	4w	w															
In 6yrs	4w + 6	w + 6	30														
			B <sub>1</sub>	For 6 sides													
			B <sub>1</sub>	For 24 years													
			B <sub>2</sub>	For the answer													
27	P.6	a) Paul = 20 seconds Mercy = 12 seconds  b) Paul was at point E  c) covered 5cm	B <sub>1</sub> B <sub>1</sub>  B <sub>1</sub>  B <sub>1</sub>	For each correct answer	Encourage candidates to identify the scale before answering the questions												
28	P.3	Magic sum = 7 + 8 + 3 $= 18$	B <sub>1</sub>	For 18	Accept any other method leading to correct answer.												



		<table><tr><td>9</td><td>t=2</td><td>7</td></tr><tr><td>4</td><td>k=6</td><td>8</td></tr><tr><td>n=5</td><td>10</td><td>3</td></tr></table> <p>k = 18 - (4 + 8) = 18 - 12 = 6 n = 18 - (4 + 9) = 18 - 13 = 5 t = 18 - (9 + 7) = 18 - 16 = 2</p>	9	t=2	7	4	k=6	8	n=5	10	3	B <sub>1</sub>	For 6																											
9	t=2	7																																						
4	k=6	8																																						
n=5	10	3																																						
			B <sub>1</sub>	For 5																																				
29	P.7	a) 1 US \$ = Ug sh 3690 300 US \$ = Ug sh 3690 x 300 Ug sh 1,107,000  b) 1ksh = Ug sh 25 18000 Ksh = Ugsh 25 x 18000 Ugsh 450,000 <u>Ugsh 450,000</u> Ugsh 3750 (45000) US dollars 375 120 US dollars	M <sub>1</sub>	For the method.	Make a review on exchange rate on tables																																			
			A <sub>1</sub>	For the answer																																				
			M <sub>1</sub>	For the method.																																				
			A <sub>1</sub>	For the answer																																				
30	P.7	<u>Area of article</u> Area = $\pi r^2$ = $\frac{22}{7} \times 4^2 \text{cm} \times 14 \text{cm}$ $\frac{22}{7}$ = 22 x 2cm 14cm = 44cm x 14cm = 616cm <sup>2</sup> <u>Area of parallelogram</u> = $\frac{1}{4}$ of circle $\frac{4}{4}$ = $\frac{1}{4} \times 616 \text{cm}^2$ $\frac{4}{4}$ = 154cm <sup>2</sup> 154cm <sup>2</sup> = b x h 154cm <sup>2</sup> = 14cm x h <u>154cm<sup>2</sup> = 14cmh</u> 14cm 44cm 11cm = h Height = 11cm	B <sub>1</sub>	For 616cm <sup>2</sup>	Encourage candidates to find area and perimeter of plane shapes.																																			
			B <sub>1</sub>	154cm <sup>2</sup>																																				
			B <sub>1</sub>	For the method																																				
			B <sub>1</sub>	For 11cm																																				
31	P.5	a) <table><tr><td>H</td><td>T</td><td>0</td></tr><tr><td>3</td><td>4</td><td>7</td></tr><tr><td>3</td><td>4</td><td>0</td></tr><tr><td colspan="2"></td><td>+</td></tr><tr><td colspan="2"></td><td>1</td></tr><tr><td colspan="2"></td><td>0</td></tr><tr><td colspan="2"></td><td>3</td></tr><tr><td colspan="2"></td><td>5</td></tr><tr><td colspan="2"></td><td>0</td></tr></table> <table><tr><td>x10<sup>3</sup></td><td>x10<sup>2</sup></td><td>x10<sup>1</sup></td><td>x10<sup>0</sup></td></tr><tr><td>4</td><td>2</td><td>1</td><td>9</td></tr></table> (b) (4 x 10 <sup>3</sup> ) + (2 x 10 <sup>2</sup> ) + (1 x 10 <sup>1</sup> ) + (9 x 10 <sup>0</sup> )	H	T	0	3	4	7	3	4	0			+			1			0			3			5			0	x10 <sup>3</sup>	x10 <sup>2</sup>	x10 <sup>1</sup>	x10 <sup>0</sup>	4	2	1	9	M <sub>1</sub>	For the method	Make a review on rounding off both on whole numbers and decimal numbers.
H	T	0																																						
3	4	7																																						
3	4	0																																						
		+																																						
		1																																						
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		5																																						
		0																																						
x10 <sup>3</sup>	x10 <sup>2</sup>	x10 <sup>1</sup>	x10 <sup>0</sup>																																					
4	2	1	9																																					
		A <sub>1</sub>	For the answer																																					
		B <sub>2</sub>	For the answer																																					

32	$10\text{km} = 1\text{cm}$ $1\text{km} = \frac{1}{10}$ $60\text{km} = \frac{1}{10} \times 60\text{cm}$ $= 6\text{cm}$	$10\text{km} = 1\text{cm}$ $1\text{km} = \frac{1}{10}$ $50\text{km} = \frac{1}{10} \times 50\text{cm}$ $= 5\text{cm}$			Make a review on rounding off both on whole numbers and decimal numbers
	<p>Sketch</p>		<p><math>S_1</math> For the sketch</p> <p><math>L_1</math> For 6cm</p> <p><math>L_1</math> For 5cm</p> <p><math>C_1</math> For <math>200^\circ</math></p>		
	<p>Accurate Daigram</p>				
b)	<p>Line <math>QR = 6.5\text{CM}</math>  <math>1\text{km} = (6.5 \times 10)\text{km}</math>  <math>= 65\text{km}</math></p>		<p><math>L_1</math> For <math>\overline{QR}</math></p>		