



# MK INTERNATIONAL SCHOOL

## MOCK EXAMINATION (2024)

SUBJECT : MATHEMATICS  
CLASS : PRIMARY SEVEN  
DURATION : 2 hours 30 minutes

Index No.					Personal No.		

Name : \_\_\_\_\_  
School : \_\_\_\_\_  
District : \_\_\_\_\_

### 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, answers to both sections A and B must be written in the spaces provided.
5. All answers be in the blue or black ball point pen or ink. Only diagrams and graphs work must be done in pencils.
6. Unnecessary alteration of work will lead to loss of marks.
7. Any handwriting that cannot be easily may lead to loss of marks.
8. Do not fill anything in the boxes indicated:

"FOR EXAMINATION USE ONLY"

### FOR EXAMINER'S

USE ONLY

PAGES	MARKS	INITIALS
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Total		



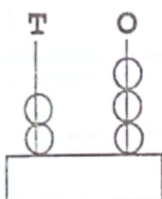
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Email internationalmk@gmail.com PRIMARY SEVEN MTC. MOCK EXAM

# SECTION A (40 MARKS)

1. Subtract: 
$$\begin{array}{r} 44 \\ -12 \\ \hline \end{array}$$

2. Work out the ninth triangular number.

3. Write the number shown on the abacus and draw tallies to represent it.



4. Work out: 
$$\begin{array}{r} 101_{\text{two}} \\ + 111_{\text{two}} \\ \hline \end{array}$$

5. Given that set  $M = \{r, a, t, s\}$  and  $N = \{0, 2, 4, 6\}$ . What type of sets is set  $M$  and set  $N$ .

6. Work out:  $2 - 3 = \underline{\hspace{2cm}}$  (finite 5) using a clock dial.

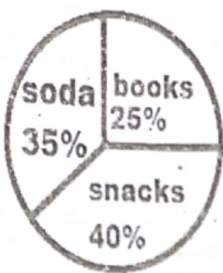
7. Work out:  $(17.6 \times 7) + (2.4 \times 7)$

8. Work out:  $\frac{2}{3} - \frac{1}{2} + \frac{3}{8}$

9. Round off **243.98** to the nearest whole number.

10. A man deposited **Sh 60,000** in a bank that offers an interest rate of **5% p.a** for **2 years**. Calculate the man's interest.

11. The pie chart below show how a boy spent his pocket money. If he spent **Sh. 7500** on books, how much was his pocket money?



12.  $(x+30^\circ)$  and  $(x - 60^\circ)$  are supplementary angles. Find the value of  $x$ .

13. If set **Y** has **5 elements**, how many proper subsets are in set **Y**?

14. **Solve:**  $2x - 1 = 7$

15. Express **0.1212.....** as a vulgar fraction.

16. Calculate the circumference of a circular plate whose diameter is **20m**. (Take  $\pi = 3.14$ )

17. An examination that lasted for **214** hours ended at **11:00a.m**. Show the starting time for this examination on the clock face below.

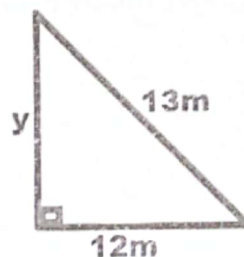


18. **Solve:**  $2^n = 32$



19. Express **90km/h** as metres per second.

20. The diagram below show a right angled triangle. Find the value of **Y**.

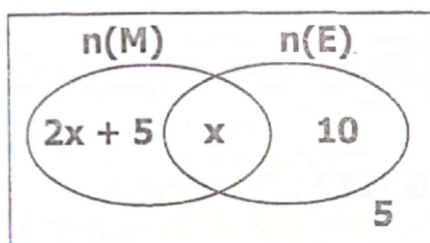


**SECTION B: 60 MARKS**

Answer all the questions in this section.

Marks for each question are indicated in brackets.

21. The venn diagram below shows the number of pupils who like Mathemaics (**M**), English (**E**) and those who like neither of the two subjects in a class.



(a) If **13** pupils like Mathematics only, find the value of **x**.

(2 marks)

b) How many pupils are in the class?

c) Find the probability of picking a pupil who does not like Mathematics.

(2 marks)

(2 marks)

22a) The median of  $n + 1$ ,  $n + 3$  and  $n + 5$  is 21. Find the value of **n**.

b) 45 poles were fixed along a straight road **10m** apart. How far is it from the first pole to the last pole?

(2 marks)

c) The **LCM** of **X** and **Y** is **48** and their **GCF** is **4**. Find **Y** if  $X = 16$ .

(2 marks)

23. Jolly, Julie and Molly shared money in the ratio of 3 : 4 : 5 respectively. If Molly got **Sh.10,000**

a) How much did they share altogether?

(3 marks)

b) How much more money did Jolly get than Julie?

(3marks)

24a) A flight started at **1215 hrs**. Express this time in 12 hour clocksystem.

(1 mark)

b)	<p>A taxi driver travelled from Kampala to Jinja at a speed of <b>40km/hr</b> for <b>3 hours</b>. He returned at a speed of <b>60km/hr</b>. Calculate the average speed of the driver for the whole journey.</p>		(4 marks)
25a)	<p>Maria has <b>320</b> bank notes numbered consecutively. If the first note is marked <b>BD4867420</b>. What number is on the last note?</p>		(2 marks)
b)	<p>A tourist from Britain arrived in Uganda with <b>£ 600</b>. How much money did he get in Uganda shillings if <b>£1 = Ug Sh. 2500</b>?</p>		(2 marks)
26a)	<p>What is the additive inverse of <b>-19</b>?</p>	b)	<p><b>Subtract:</b> <math>+5 - -7</math> using a number line.</p>
	(2 marks)		(2 marks)
c)	<p>Solve and write the solution set for the inequality. <b><math>2x + 5 &lt; 1</math></b>.</p>		

27a) Write "**sixty thousand sixty**" in figures. (2 marks)

b) Write <b>46300</b> in standard form. <span style="float: right;">(1 mark)</span>	c) Express <b>CDXLVI</b> in Hindu Arabic numerals. <span style="float: right;">(1 mark)</span>
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d) What is the place value of **9** in **893086**. (1 mark)

28a) <b>Solve for the unknown.</b> $5(P + 2) = 25$ <span style="float: right;">(2 marks)</span>	b) <b>Subtract</b> $(3y - 1)$ from $(6y - 5)$ . <span style="float: right;">(2 marks)</span>
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29. The table below show marks scored by pupils in P.7 class.

MARKS	45	40	50	60
NO. OF PUPILS	1	1	2	1

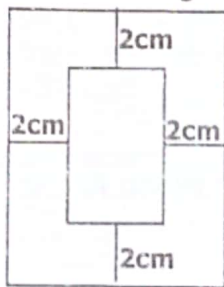
a) How many pupils did the test? <span style="float: right;">(1 mark)</span>	b) Find the median mark. <span style="float: right;">(1 mark)</span>
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c) Calculate the mean mark and state the number of pupils who scored above it. (3 marks)



30.

The diagram below shows a photo **11cm** by **4cm** centrally laid in the photo frame leaving **2cm** all round. (a) Find the actual length and width of the photo frame.



(2 marks)

b)

Calculate the area of the photo frame not covered by the photo.

(3 marks)

31a)

**Simplify:**  $\frac{4.5 \times 1.6}{1.5 \times 4.8}$

b)

**20%** of a number is 80. Work the number.

32.

Using a ruler, a pencil and a pair of compasses only, construct a triangle **ABC** where **AB = 6cm**, angle **BAC = 120°** and angle **ABC = 30°**

(4 marks)

b)

Measure length **BC**.

(1 mark)