



# WAKISO-KAMPALA TEACHERS' ASSOCIATION (WAKATA) WAKATA END OF TERM 1 ASSESSMENT 2024

## PRIMARY SEVEN MATHEMATICS

**Time Allowed:** 2 hours 30 minutes

Random No.	Personal No.

**Candidate's Name:**.....

**Candidate's Signature:**.....

**School Name:**.....

**District ID No.**

**Read the following instructions carefully:**

1. This paper has two sections A and B.
2. Answer all questions. All answers to both Sections A and B must be written in the spaces provided.
3. All answers must be done using a blue pen or black ball-point pen or fountain pen.
4. Unnecessary changes of work may lead to loss of marks.
5. Any hand writing that cannot easily be read may lead to loss of marks.
6. Do not fill anything in the boxes indicated: "For Examiners' Use Only" and those inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' No.
1–5		
6–10		
11–15		
16–20		
21–22		
23–24		
25–26		
27–28		
29–30		
31–32		
Total		

**Turn Over**

### SECTION A (40MARKS)

**Answer all questions in this section. Questions 1-20 carry two marks each**

<p><b>1.</b> Find the difference between 189.05 and 30.95</p>	<p><b>6.</b> Using a pair of compasses, a ruler and a <b>sharp</b> pencil only, construct an angle of <math>105^\circ</math> in the space below</p>
<p><b>2.</b> Simplify: <math>3.2 \times 6.3 + 3.2 \times 1.2</math> using distributive property.</p>	<p><b>7.</b> How many proper subsets can be counted in the set below:  <math>P = \{a, e, i, o\}</math></p>
<p><b>3.</b> Find the value of K in the figure below.</p>	<p><b>8.</b> What is the simplest fraction of the shaded part shown in the figure below?</p> 
<p><b>4.</b> Remove the brackets and simplify. <math>6(2 - 5m) - 2(2m - 3)</math></p>	<p><b>9.</b> Increase 1000 bags by <math>12\frac{1}{2}\%</math></p>
<p><b>5.</b> Solve: <math>3 + 2y = -5 + 10y</math></p>	<p><b>10.</b> A rectangular field has a perimeter of 90 meters. If the length is <math>(g + 1)</math> and width is <math>g</math> metres. Find the area of the field in <math>m^2</math></p>



**11.**

Given that  $V^2 = 1.44$ . Find the value of  $\left(\frac{1}{2}V\right)^2$ .

**12.**

Find the next number in the sequence.  
256, 225, 196, \_\_\_\_\_

**13.**

The sum of three consecutive even numbers is 18. Find the mean of the numbers.

**14.**

Three books cost Sh. 20,850. Find the cost of a dozen of similar books.

**15.**

Work out:  $-9 - -4$

**16.**

Kasumali covered a distance of 128km in 2 hours and 40 minutes. What was his average speed in meters per second?

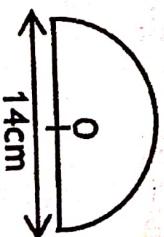
**17.**

Calculate the area of the part shaded in the figure below. Given that  $\overline{OA} = \overline{OB} = 7\text{cm}$ .



*consecutive*

The sum of two consecutive numbers is 71. What is five times the greater one?

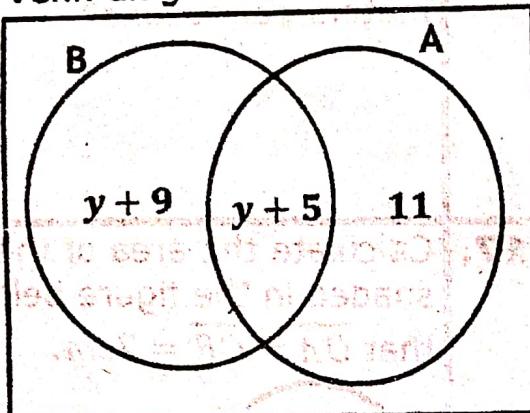


**Turn Over**

**SECTION B (60MARKS)**

Marks for each part of the question are indicated in brackets

21. In the Venn diagram below:  $n(A) = 24$ .



Find: (i)  $y$

(02marks)

(ii)  $n(B)$  (02marks)

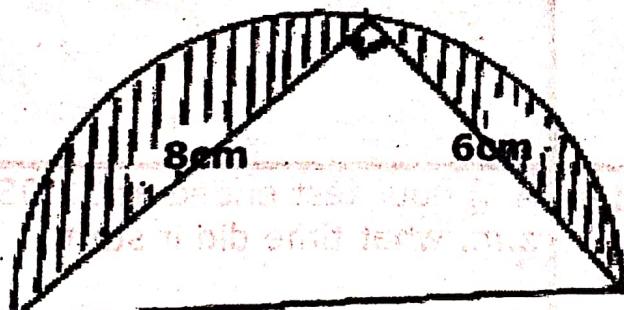
(iii)  $n(A \cap B)'$  (02marks)

- 22.

Calculate the area of the region shaded in the figure below.

(Take  $\pi = 3.14$ )

(04marks)



- 23.

(a) Simplify:  $\frac{0.32 \times 1.2}{0.016}$

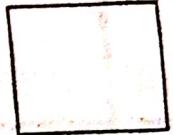
(02marks)

(b) Solve:  $\frac{1}{2}(3w - 2) = \frac{2}{3}(2w + 3)$

(03marks)

24. (a) Tap A takes 3 minutes to fill the tank and tap B takes 4 minutes to empty the same tank. How many minutes will both taps A and B take to fill the tank if opened at the same time? (02marks)

(b) If the tank contains 24,000 liters of water when full, how long will it take to put 6,000 liters of water using tap A and B. (03marks)



25. (a) Using a ruler, pencil and a pair of compasses only, construct a triangle ABC such that angle  $BAC = 30^\circ$ , length  $AB = 8.6\text{cm}$  and angle  $ABC = 45^\circ$  (04marks)

(b) Drop a perpendicular from C to meet AB from at K.

Measure:

(01mark)

(i)  $\overline{CK}$

(01mark)

(ii)  $\overline{BC}$

(02marks)

(c) Find the area of the Triangle ABC.

**26.**

Out of 1,200 candidates who read the pass P.L.E pull out in Kalangala district,  $\frac{1}{3}$  are girls.

(a) How many of the candidates are girls.

(b) If 60% of the boys get pull out from the school libraries and 45% of the girls buy their own, how many candidates buy their own papers? (03marks)

**27.**

The rectangular part of Budongo forest is to be fenced with posts placed 40 meters apart. If the forest is 3.6km by 2.4km and that each post will cost Sh.20, 000 and labour Sh.1, 000,000. How much money is needed to do the work? (04marks)

**28.**

In making an alloy, the mixture of iron, zinc and copper is in the ratio of 25:2:3 respectively. If the weight of the alloy was 1.5 tonnes, how many kilograms of:

(i) Zinc was used?

(02marks)

(ii) Both iron and copper was used?

(02marks)

**29.**

The table below shows results in a math's test done by P.7 pupils.

Marks scored	70	60	40	51
No of pupils	3	4	3	2

(a) How many pupils did the test?

(02marks)

(b) What was the modal mark?

(01mark)

(c) Calculate the mean mark.

(02marks)

**30.** Naiga went to the market with sh. 25,000 and bought the following items:

3kg of meat for sh.2,500 per kg.

$2\frac{1}{2}$  kg of rice for sh.1,200 per kg.

250gm of producer milk at sh.4,000 per kg and

2 bags of charcoal for sh.13,000

(05marks)

(a) What was her total expenditure?

(b) If she was given a discount of 10%, how much would she have paid?

(02marks)

**31.** The table below represents the magic square of order 3.

Find the value of:  
(i) P  
(01mark)

8	3	P
q	5	9
s	r	2

(ii) q

(01mark)

(iii) r

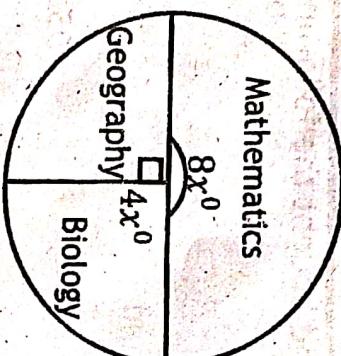
(01mark)

(iv)

(01mark)

32.

The pie chart below represents some of the text books in Ndejje S.S library. There are 200 biology text books in the library.



(a) Find the value of  $x$

(01mark)

(b) How many more mathematics books are there than Geography books.

(02marks)

(c) What percentage of the books represented on the pie-chart are geography books?

(02marks)

END

