# KAMPALA JUNIOR ACADEMY LOWER WORK TEST II 2020 PRIMARY SEVEN <br> MATHEMATICS 

## Time allowed: 2 hours 30 minutes

Index No.

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Candidate's Name: $\qquad$
Candidate's Signature: $\qquad$

## School Name:

$\qquad$
Read the following instructions carefully:

1. The paper has two sections: A and $\mathbf{B}$

| FOR EXAMINER'S USE ONLY |
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3. Section $\mathbf{B}$ has 12 questions (60 marks)
4. Answer ALL questions. All answers to both Sections A and $B$ must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may 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

| FOR EXAMINER'S USE ONLY |  |  |
| :---: | :---: | :---: |
| Qn. No | MARK | SIGN |
| 1-10 |  |  |
| 11-20 |  |  |
| 21-30 |  |  |
| 31-32 |  |  |
| TOTAL |  |  | use only.

## SECTION A: (40 MARKS )

1. Work out: $10 \times 12$
2. Expand 634 using values.
3. Shade $Q^{\prime}$ in the diagram below.

4. Multiply: $5 \times 3=$ $\qquad$ Draw groups to find the answer.
5. How many squares are in the next grouping in the pattern?

6. What number is shown on the abacus below?

7. 24 pencils cost Shs. 6000. How many dozens of pencils can one buy with Shs. 18000?
8. Name the solid figure whose net is shown below.

9. Express $\frac{1}{50}$ as a decimal fraction.
10. The average of $3,8,12, x, 15$ and 18 is 11 . Find the value of $x$.
11. A thief broke into our house at eight minutes to mid-night. Express this time in a 12 hour clock system.
12. Solve: If $a=8 \quad a n d b=6$, find the value of $\quad a b$ $2 b$
13. Calculate the value of angle $p$

14. Given that this cup can hold 2.5 litres, draw such cups which will hold 15 litres.
15. Simplify: $1 \frac{1}{5}$ x $\frac{5}{6}$
16. Simplify: $-6+-2+{ }^{+} 8$
17. Maria is standing facing South East direction. If she turns anti-clockwise through an angle of $135^{\circ}$, in which direction will she face?
18. Solve: $\quad 3(p-2)=6$
19. In a school of 900 pupils, $55 \%$ are boys. How many girls are there?
20. Multiply: $4 \times 7=$ $\qquad$ (finite 8)

## SECTION B: (60 MARKS)

21. Given that $n(M)=25, n(N)=20$ and $n(M \cap N)=8$.
(a) Represent the information on the venn diagram below. (2 marks)


(b) Find: (i) $n(N-M)$
(1 mark)
(ii) $\quad \mathrm{n}(\mathrm{M}-\mathrm{N})$
(1 mark)
(iii) $n(M \cup N)$
(1 mark)
22. (a) Solve: $3(y-2)-4(y-2)=7$
(3 marks)
(b) A farmer is thrice as old as his daughter. Their total age is 60 years. How old is the daughter.

| 18 |  | 16 |
| :--- | :--- | :--- |
|  | 15 |  |
| 14 |  |  |

24. The figure below is a rectangular tin whose volume is 3.6 litres.

(a) Find the value of $h$.

25 (a) The cost of a pen and a book are in the ratio of 5:3 respectively. If a pen costs Sh. 21000; What is the cost of a book?
(2 marks)
(b) 45 out of 50 pupils in Primary Seven like Maths. The rest like English. What percentage of the pupils like English?
(2 marks)
26. Using a ruler, a pencil and a pair of compasses only, construct a square with side 6 cm and measure the length of the diagonal.
(6 marks)

Mariam went shopping and bought the following items; 2 loaves of bread at Shs. 3500 per loaf.
$1 / 2 \mathrm{~kg}$ of meat at Shs. 8000 per kg.
$1 / 2$ litre of cooking oil at Shs. 1500.
750 gm of rice at Shs. 4000 per kg.
(a) How much money did she spend?
(4 marks)
(b) If she was given change of shs. 1500 , how much money did she go with?
28. Use the figure below to answer the questions that follow.

(a) Find the value of $y$.
(2 marks)
(b) Calculate the area of rectangle PQRS.
(3 marks)
(c) Find length of $\overline{P R}$.
29. Simplify:
(a) $2.36-8.4+9.07$
(2 marks)
(b) $\left(\frac{3}{5}-\frac{1}{3}\right) \div \frac{1}{5}$
(2 marks)

30 A car takes 3 hours to cover a certain journey at $60 \mathrm{~km} / \mathrm{hr}$ but it takes only 2 hours to return through the same distance. Calculate average speed for the whole journey.
31. Study the diagram below and use it to answer questions that follow.

(a) Calculate the value of angle $x$.
(2 marks)
(b) Calculate the value of angle $y$.
(2 marks)
32. The table below shows malaria patients who reported at a certain hospital in the first half of the year.

| Months of the year | Jan | Feb. | Mar. | Apr. | May | June |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of patients | 50 | 30 | 25 | 30 | 40 | 65 |


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(a) Complete the vertical axis.
(1 mark)
(2 marks)
(c) If each patient was paying Sh. 20000 for consultation, how much money did the hospital collect in June?
(2 marks)

Good Luck

