

## THE CRANES EXAMINATIONS BOARD

KANSANGA- KAMPALA 0766737572 / 0762136454

# QUALITY MOCK SET 2 MATHEMATICS

**Time Allowed: 2 Hours 30 Minutes** 

Random No.						Personal No.			

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DISTRICT NAME:											
CANDIDATE'S SIGNATURE:											
CANDIDATE'S NAME:											
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#### 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. 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 a pencil.
- 6. **Unnecessary** changes in your 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 table indicated:
- " FOR EXAMINERS' USE ONLY" and boxes inside the question paper.

FOR EXAMINERS' USE ONLY					
Qn. No	MARKS	EXR'S No.			
1 – 10					
11 – 20					
21 – 22					
23 – 24					
25 – 26					
27 – 28					
29 – 30					
32 – 32					
TOTAL					

**TURN OVER** 



### **SECTION A: 40 MARKS**

Answer all the questions in this section.

Questions 1 to 20 carry two marks each.

- 2. Write **XCIV** in Hindu Arabic numerals.

3. Given that set  $K = \{ g, o, a, t \}$ , write down all the subsets of set K.

- 4. Find a equivalent fraction of **5**
- 5. Expand **5637** using powers of ten.

6. Using a ruler and a pair of compasses only, construct an angle of  $60^{\circ}$ 

7. Given that x = 3, y = 4 and w = 2, find the value of  $2x^2y$ 

8. Find the next number in the sequence.

2, 4, 6, 8,\_\_\_\_\_\_, \_\_\_\_\_

9. It takes Rachael 45 minutes to travel from Kampala to Kasangati, she arrived Kasangati at 12:30pm. At what time did Rachael leave Kasangati ?

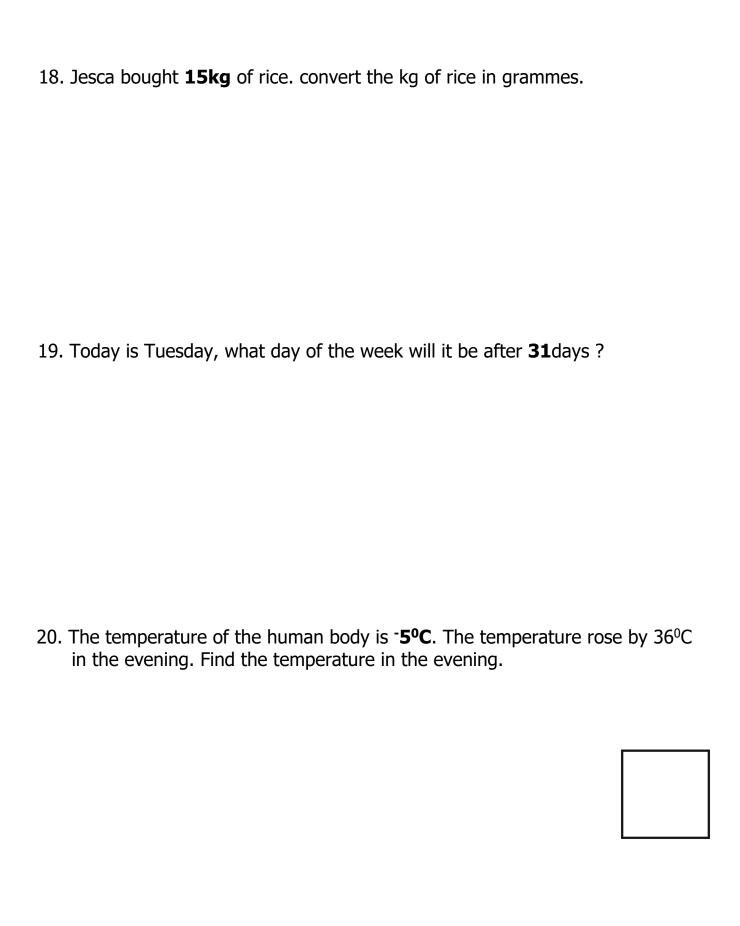


10.	Mr Kembo sold a bicycle and made a profit of <b>shs. 27,000</b> . If is <b>shs. 90,000</b> , calculate the percentage profit.	the cost price
	Find the largest number that is divisible by <b>24</b> and <b>30</b> without remainder.	leaving a
12.	The range of marks scored in a science test is <b>23</b> . If the highe <b>76</b> . What is the lowest mark scored.	st mark scored
14.	Calculate the perimeter of a rectangle if the length is <b>7cm</b> .	

15. Work out: 28 - 14 + 37

16. Solve for r: **5 - 3r < 35** 

17. Find the bearing of point **A** from point **B**.

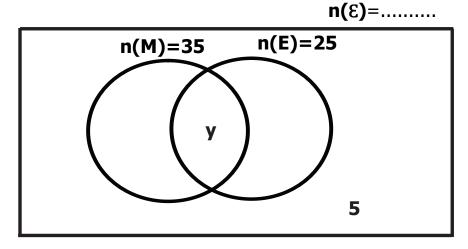


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#### **SECTION B: 60 MARKS**

# Answer all question in this section Marks for each question are indicated in the brackets

- 21. In a class of 55 pupils, 35 like Mathematics (M), 25 like English (E) and 5 do not like any of the two subjects and y like both subjects.
- (a) Use the information to complete the Venn diagram below.



(1 mark)

(b) How many pupils liked both subjects ?

(3 marks)

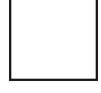
(c) How many pupils like only one subject?

(2 marks)

22. Work out:	0.0144 + 0.012
	0.36 - 0.01

23.(a) Using a ruler and a pair of compasses only, construct a triangle **ABC** where BC = 6cm,  $ABC = 90^{\circ}$  and  $BCA = 45^{\circ}$ 

(4 marks)



(b) Measure length **AC** in cm.

(1 mark)

24. Given that  $220_x = 1221_{three}$ , Find the value of x

(3 marks)

25(a). Simplify: 3x-4y from x + 5y

(2 marks)

(b) Solve for **p**:  $\frac{5p-4}{2} = p+6$ 

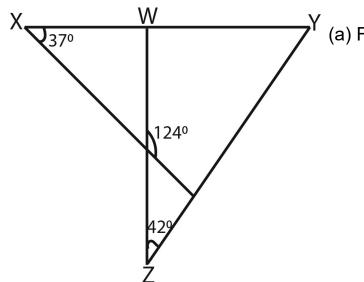
(03 mark s)

26.(a) Express **0.2333**...... as a common fraction in lowest terms. (03 marks)

(b) Simplify:

(03 marks)

27. Study the diagram below and use it to answer the question that follow

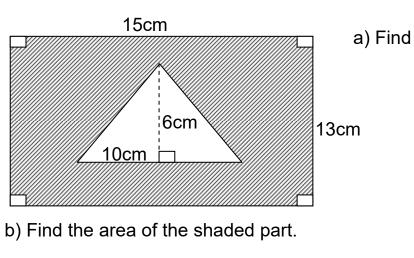


(a) Find the size of angle **ZWY**. (03 marks)

(b) Calculate the size of angle  $\boldsymbol{Y}.$ 

(02 marks)

28. Use the figure below to answer the questions that follow.



a) Find the area of the outer figure.

(02 marks)

(03 marks)

29. A bicycle tyre can rotate **40** complete turns making a distance of **4280** cm. Find the radius of a bicycle tyre.

(05 marks)



30. Mr. Mawazi went to the Supermarket and bought the following items.

ltem	Unit price	Amount	
3 kg of sugar	shs. 4,000	shs.———	
2 bars of soap	shs	shs. 10,000	
gm of salt	shs. 800	shs	
	Total Expenditure	shs. 24,000	

(a) Complete the table above	<b>)</b> .
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(04 marks)

(b) If Mr. Mawazi paid shs. 18,000. Find the percentage discount. (02 marks)

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31. A taxi carries 14 people to become while a bus carries 49 to become made five trips and a bus made one trips when full.	me full. If a taxi
(a) Find the number of people who were carried.	(03 marks)
(b) Find the amount of manay that was paid for each passanger if the	owner of the
(b) Find the amount of money that was paid for each passenger if the taxi was given shs. 56,000 per trip.	owner or the
	(02 marks)
32.Bobi Wine bought a bull at sh.200,000, he sold it to Among at a pr	ofit of 40%.
Among then sold it to Tayebwa at a loss of 20%.  How much did Tayebwa pay for the bull?	
	(05 marks)

13 END