

# KAMPALA PRIMARY SCHOOLS' SKYLINE EXAMINATIONS™

P.L.E - 2022

Set 03

## MATHEMATICS

**Time Allowed: 2 hours 30 minutes**

**Index No.**

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

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

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

**District Name:**.....

**DO NOT OPEN THIS BOOK LET UNTIL YOU ARE TOLD TO DO SO.**

**Read the following instructions carefully;**

1. The paper has **two Sections: A and B**.
2. Section **A** has 20 short questions ( 40 marks ).
3. Section **B** has 12 questions ( 60 marks ).
4. Attempt **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using blue or black ball-point pen or ink. Only diagrams and graphs work may be done in pencil.
6. Unnecessary alteration of work will lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated for examiners' use only.

FOR  
EXAMINERS'  
USE ONLY

FOR EXAMINERS' USE ONLY		
Qn. No.	MARK	SIGN
1 - 4		
5 - 8		
9 - 12		
13 - 16		
17 - 20		
21 - 23		
24 - 26		
27 - 29		
30 - 32		
<b>TOTAL</b>		

## SECTION A: 40 MARKS

Questions 1 to 20 carry two marks each.

1. Divide 24 by 8.

2. Round off 9763 to the nearest thousands.

3. Given that  represents twelve pencils, draw diagrams to represent 24 pencils.

4. Solve:  $-8 + +5 - -2$

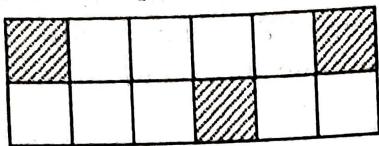
5. If today is Tuesday, what day of the week was it 40 days ago?

6. With the help of a ruler, a pencil and a pair of compasses only, draw an angle of  $105^\circ$ .

7. Subtract:  $8n - 3$  from  $3n + 2$

8. Solve for  $y$ :  $4\frac{1}{2} = y - 2$

9. Find the percentage of the un-shaded region.

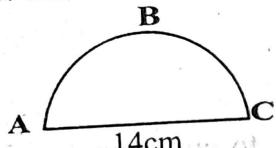


10. Alice went to Bank of Africa to withdraw her money. The cashier gave her bank notes numbered from PC00546 to PC00645 of value twenty thousand shillings each. How much money did she withdraw from the bank?

11. A heap of passion fruits costs Shs.2,400/. How many heaps does one get with Shs.12,000/=?

12. The average weight of three boys is 53Kg. Two of the boys weigh 49Kg and 50Kg. Find the weight of the third boy.

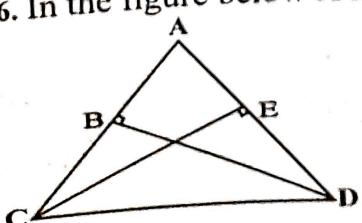
13. The radius of the given figure below is 14cm. Find the distance around the figure.  
(Take  $\pi$  as  $\frac{22}{7}$ )



14. Solve the inequality  $3n - 6 \leq 5n + 12$

15. Given that  $X = 3$  and  $y = 2$ . Find the square of the value of  $2X^2 - y^2$ .

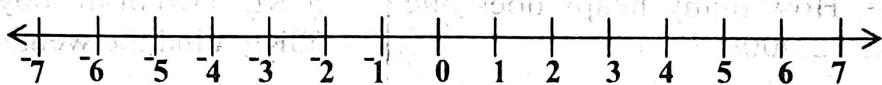
16. In the figure below  $AC = 4\text{cm}$ ,  $AD = 12\text{cm}$  and  $BD = 4\text{cm}$ . Find length of  $EC$ .



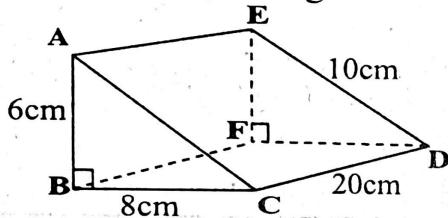
17. Keto Salon receives 200 customers each day. 40% of the customers are always men and the rest are women. How many women go to that salon each day?

18. Mubiru covered a distance of 360Km using a speed of 80Km per hour. How long did he stay on the way?

19. Show  $-2 \times -3$  on the numberline below.



20. Work out the length of all the edges of the given figure below.

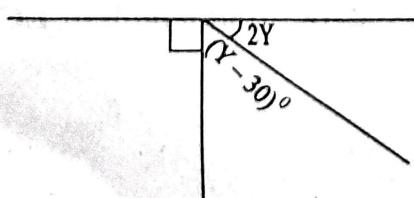


## SECTION B: 60 MARKS

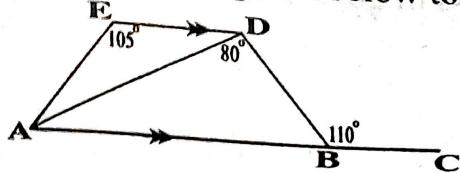
21. (a) Work out:  $\frac{0.45 \times 0.036}{0.012 \times 0.9}$  (3 marks)

(b) Change 0.2444... to common fraction in its simplest form. (2 marks)

22. (a) Find the value of Y in the diagram below. (2 marks)

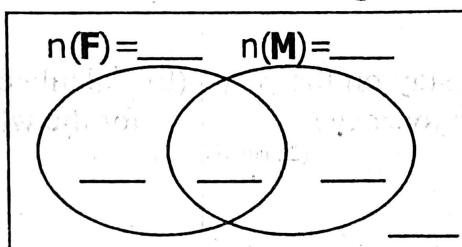


(b) Use the figure given below to find the size of angle EAD. (2 marks)



23. At Kabazira's wedding function of 40 guests, 10 people took Mirinda only  $n(M)$ , (K+8) people took Mirinda and Fanta, 25 people took Fanta  $n(F)$  while K people took neither of the given drinks.

(a) Represent the above information on the Venn diagram below. (3 marks =  $\frac{1}{2}$  Mark each)



(b) Find the number of people who took both types of drinks. (2 marks)

(c) If the chief guest was chosen randomly from the people who attended the wedding function, what is the chance of choosing a guest who did not take Mirinda? (1 mark)

24. Using the given digits 4, 0 and 7.

(a) Write all possible three digit figures. (2 marks)

(b) Find the median of the formed figures. (2 marks)

25. (a) Reduce 3600 birds by 40%. (2 marks)

(b) By selling a shirt for Shs.4,000/=, Dunia makes a loss of 20%. For how much would he sell the same shirt to make a gain of 40%? (2 marks)

26. A bus moving at an average speed of 80Km per hour left town **X** at 6:00p.m. and reached town **Y** at 9:00p.m. It further continued with its journey to town **Z**, at 60Km/hr for two hours.

(a) For how long did the bus stay on the way to cover its first part of the journey? (2 marks)

(b) Calculate the average speed of the bus for the whole journey. (3 marks)

27. Nantale went for shopping and bought the following items from a supermarket:

2Kg of sugar at Shs.3,500/= a kilogramme.

3 Kgs of rice at Shs.3,600/= per Kg.

2 loaves of bread at Shs.4,500/= per loaf

500gm tin of cowboy at Shs.3,500/=.

(a) Work out her total expenditure. (4 marks)

(b) Find her change if she had a fifty thousand shilling note and was given a 20% discount. (2 marks)

28.(a) With the help of a ruler, a pencil and a pair of compasses only, construct a parallelogram PQRS such that  $PQ = 6\text{cm}$ ,  $PS = 4\text{cm}$  and angle  $PQR = 60^\circ$ . (4 marks)

(b) Measure length of QS. (1 mark)

29. The ratio of the width to the length of a rectangle is 3:4 respectively. The perimeter of the rectangle is 70cm.

(a) Work out the actual length and width of the rectangle. (3 marks)

(b) What is the area of the rectangle? (2 marks)

30.(a) Juma is five times as old as his sister Fatuma. If the product of their ages is eighty years, find the age of Juma. (3 marks)

(b) Solve:  $8 - 2(n - 4) = -2$  (2 marks)

31. Study the taxi time table below and answer the questions that follow.

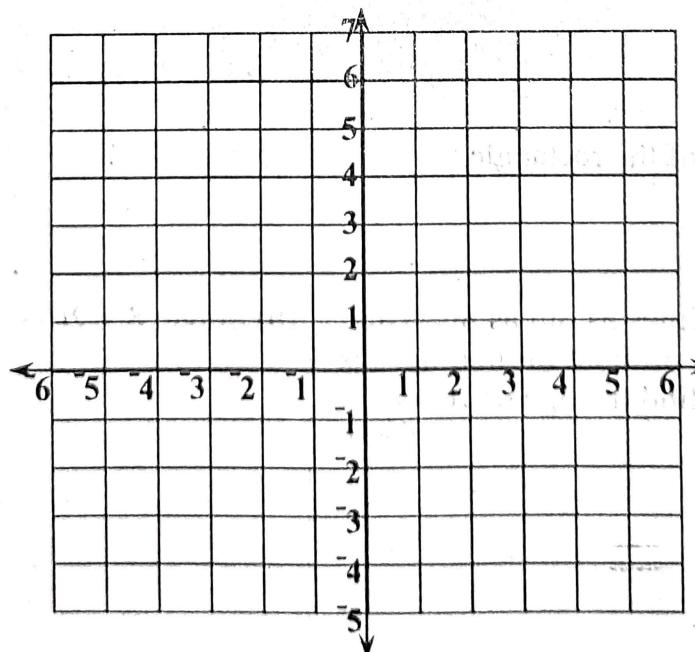
STATION	Arrival time	Departure time
Kampala		6:30a.m.
Jinja	8:00a.m.	8:15a.m.
Iganga	9:30a.m.	10:00a.m.
Mbale	1:00p.m.	

(a) How long did the taxi take to travel from Kampala to Iganga? (2 marks)

(b) For how long did the taxi rest on the way? (2 marks)

(c) Given that the distance between Kampala and Mbale is 260Km, at what speed was the taxi travelling? (2 marks)

32. (a) Using the grid given below, plot the following points: P(-3, -1), Q(4, -1), R(4, 3) and S(-3, 3). Then join points P to Q, Q to R, R to S and S to P. (4 marks)



(b) What is the area of the formed figure in square units? (2 marks)