

UGANDA NATIONAL EXAMINATIONS BOARD



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Index No

Subject M.T.C.

Name

Signature

2022/042

PART ONE

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SECTION A: 40 MARKS

Answer all questions in this section.

Questions 1 to 20 carry two marks each

1. Add $75 + 75$

2. Write in words 14,141

3. Simplify: $-5 - -7$

4. Solve: $\frac{2}{3}x = 8$

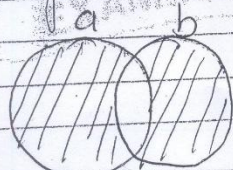
5. Given that set $P = \{\text{all odd numbers less than 10}\}$ find $n(P)$.

6. 51M is exactly divisible by 3. If the sum of the digits is 15. Find the value of m.

7. Omara has goats and cows in the ratio of 4:3 respectively. If he has 16 more goats than cows, how many cows does he have?

8. The complementary angle of $(2x - 20)^\circ$ is 40° . Find the value of x.

9. Describe the unshaded region on the venn diagram below



10. The area of a square room is 36 m^2 . What is the total distance around the room?

11. The probability that Tonny will go to school today is $\frac{2}{3}$. What is the

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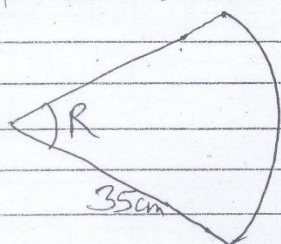
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probability that he will not go to market today?

- 12 The perimeter of the figure below is 114cm. Find the value of R.



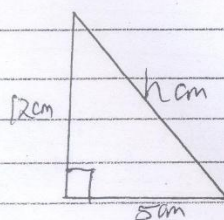
- 13 Round off 36.89 to the nearest tenth.

- 14 A pupil spent $\frac{1}{6}$ of the pocket money on soda and $\frac{1}{4}$ of the remainder on transport and was left with shs 36000. How much money did the pupil have at first?

- 15 What is the ratio increase from 900 to 960?

- 16 Move 4 metres backwards and another 4 metres backwards. Write your last position using integers.

- 17 Find the value of h in the figure below



- 18 A doctor gave 24 pills to the patient. The

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patient had to take 2 pills each day.
How many ^{days} did the dose last?

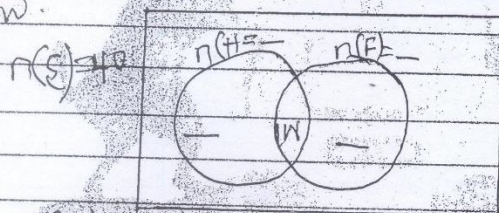
19 A father is twice as old as his daughter. Their total age is 45 years. How old is the daughter?

20 Work out: $9 + 7 + 2$ using a 12 hour clock face.

SECTION B

21 In Kiigindi SDA primary school, there are 40 pupils in primary seven, 25 pupils like fishing (F), 18 pupils like hunting (H), W like both fishing and hunting.

(a) Complete the above information on the venn diagram below.



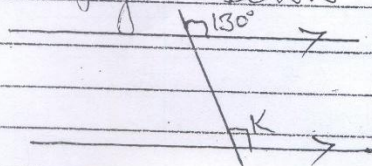
(b) Find $n(W)$

(c) Work out $n(H)$

22 (a) solve $2(2a+6) - 3(a+5) = 0$

(b) if $x^2 = 81$, find the value of x.

3 (a) Work out the size of the angle K on the figure below



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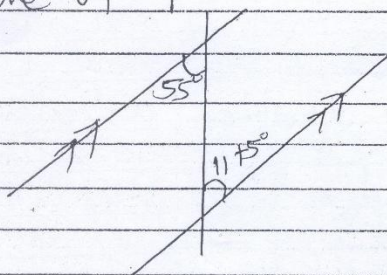
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(b) Find the value of p .



24 Town M is 60 km in the North East of town N.
Town L is 80 km on a bearing of 120° from town N.

(a) Draw a rough sketch for the above. Taking a scale of 1 cm : 10 km, draw an accurate figure.

(b) What is the actual distance between M and L?

(c) What is the bearing of N from M?

(d) What is the bearing of M from L?

25 Study and complete the frequency table below.

Marks	Freq	Total
54	3	162
64	2	—
—	3	210
85	—	340

(a) Find the median mark.

(b) Find the range

26 Otim ate $\frac{4}{9}$ of a sugarcane in the morning and $\frac{2}{9}$ in the afternoon.

(a) Find the total fraction Otim ate.

(b) Work out the fraction of the sugarcane that remained.

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27 Alex went to market and bought the following items;

- $2\frac{1}{2}$ Kg of sugar at shs. 3000 per Kg.
- 500 gm of millet at shs 6000 per Kg
- 5 Kg of meat at shs 10000
- 3 bars of soap at shs 2000 per bar.

- Calculate his total expenditure
- If he went with shs 50,000 to the market, how much was his change?

28 The sum of 3 consecutive counting numbers is 18.

- Find the number
- Work out their range.

29 Sarah deposited shs 600,000 in a bank for 8 months, the bank gives an interest rate of $12\frac{1}{2}\%$ per year.

How much money will she have in her account by the end of the period?

30 (a) Solve $2(6-3) - 6 = 2$

(b) Work out $\frac{2x+1}{3} = \frac{x+8}{2}$

31 (a) Change 1101_{two} to decimal base

(b) Given that $52n = 112$ five. Find n.

32 The bar graph below represents the number of pupils who registered for different games in a school.
(Each pupil registered once).

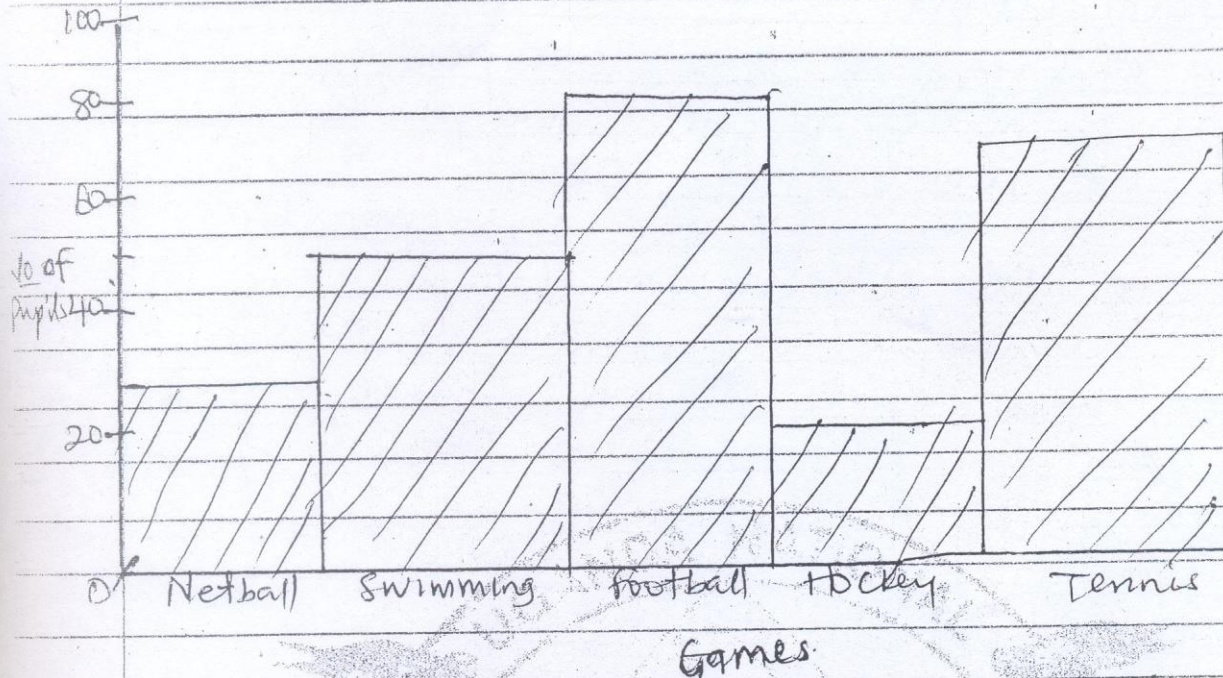
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- What percentage of pupils are swimmers?
- If a pupil is picked at random, what is the probability that a pupil picked will play netball?
- How many pupils participated in tennis?
- Which ^{game} subject had the greatest number of registered pupils?

END.