



# THE PEARL EDUCATIONAL CONSULT

## MAGICAL SET 2 EXAMINATION-2023

### P.7 MATHEMATICS

*Time allowed: 2 Hours 30 minutes*

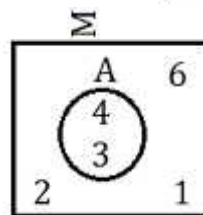
Name: .....

School: .....Stream:.....

#### SECTION A

1. Add:  $6 + 45$

2. Find  $n(A)$  .....



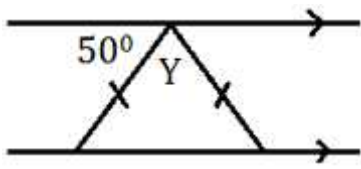
3. James walked 3km in 30 minutes.  
Calculate his speed in k.p.h.

4. Convert  $110011_{\text{two}}$  to base ten.

5. Write 800cm as metres.

6. Find the sum of the 4<sup>th</sup> and 5<sup>th</sup> prime numbers.

7. Find the value of angle marked y.



8. Write 144 in Roman numerals.

9. Work out:  $4^0 + 6^1 \times 6^{-1}$

10. Round off 89.564 to the nearest whole number.

11. Express the recurring decimal 0.3999... as a common fraction to its lowest term.

12. The probability that Jane will fail her examination is  $\frac{2}{7}$ . What is the probability that she will pass the examinations?

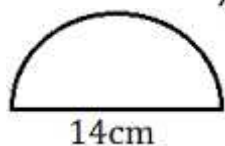
13. Workout:  $(5.6 \times 10) + (10 \times 4.4)$  using distributive property.

14. Write a half past mid night in 24 hour clock system.

15. Express 434900 in standard form.

16. Using a ruler, a pencil and a pair of compasses only. Construct an angle of  $120^\circ$ .

17. Find the circumference of the figure below. (Take  $\frac{22}{7}$  for  $\pi$ )



18. Solve for p.  
 $3(p + 1) - (p + 2) = 9$

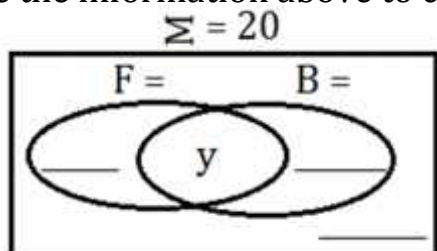
19. Simplify:  $(-2) - (-7)$

20. A person deposited 180,000/= in a bank for  $2\frac{1}{2}$  years at an interest rate of 2% per year. Calculate her simple interest after that time.

### SECTION B

21. In a family of 20 people, all of them eat meat, 11 eat meat and fish (F) but not beans, 12 eat meat and beans (B) but not fish, Y people eat all the three meals and 1 person eat meat only.

a) Use the information above to complete the Venn diagram below. (3mks)



b) How many people eat all the three meals? (2mks)

22. Simplify:

a)  $\frac{3.6 \times 0.3}{1.2 \times 0.09}$

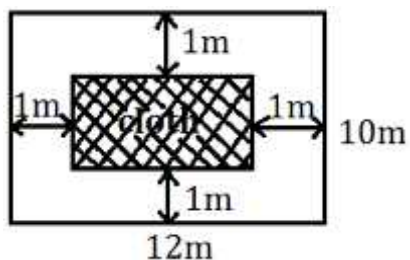
(3mks)

b)  $\frac{5}{6} - 1 \frac{1}{4} + \frac{3}{4}$

(2mks)

23. A table cloth was laid centrally on a table size 12 metres by 10 metres.

a) Find the area of the table cloth if it left 1 metre on all sides of the table. (3mks)



b) Calculate the area of the table left uncovered. (2mks)

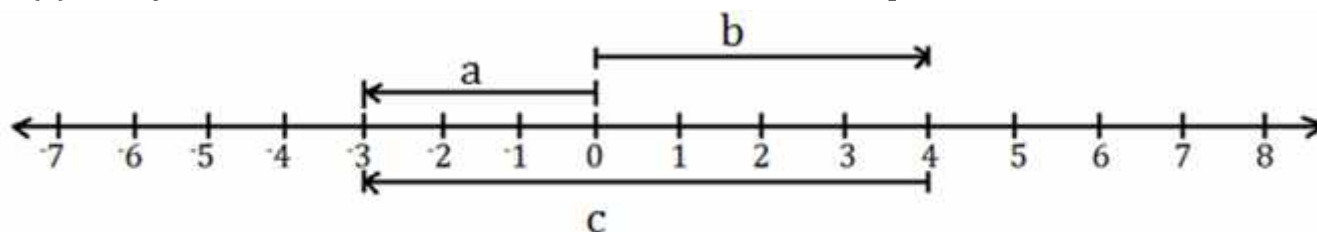
24(a) Workout:

(2mks)

HOURS	MINUTES
3	45
+ 2	15
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b) A party started at 7:20pm and ended at 1:50am. How long did the party last? (2mks)

25(a) Study the number line below and use it to answer questions that follow.



Arrow: (1mk each)

a = \_\_\_\_\_

b = \_\_\_\_\_

c = \_\_\_\_\_

b) Write a mathematical sentence from the above number line. (2mks)

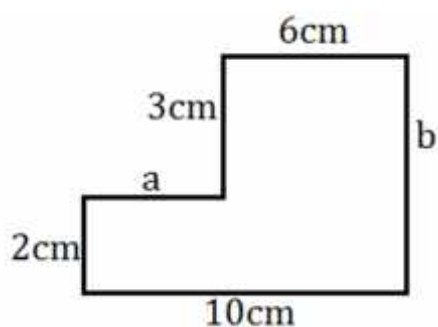
26. The table below shows the weights of pupils in a class of P.7.

<b>Weight in kg</b>	20	60	40	50
<b>No. of pupils</b>	4	1	2	3

a) How many pupils were weighed? (1mk)

b) Find their median weight. (2mks) c) Workout their average weight. (2mks)

27. Study the figure below and answer the questions.



i) Find the value of a.

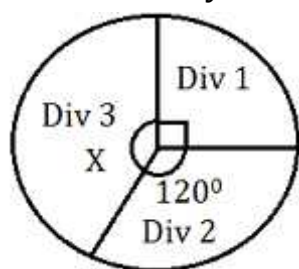
(1mk)

ii) Find the value of b.

(1mk)

iii) Calculate the area of the figure. (2mks)

28. The pie chart below shows how 72 candidates performed in P.L.E 2016 in Military Police Primary School. Use it to answer the questions that follow.



a) Find the value of X in degrees.

(2mks)

b) How many more candidates passed in division three than division one?

(3mks)

29. (a) Using a ruler, a pencil and a pair of compasses only, construct a triangle RST

where  $\angle R = 90^\circ$ , line RS = 4cm and line RT = 3cm.

(4mks)

b) Measure line TS.

(1mk)

30. Amos went for shopping and bought the following items.

- 2kgs of sugar at 4,000/= per kg
- 500g of tea leaves at 2,000/= per kg
- $1\frac{1}{2}$  of meat at 10,000/= per kg
- 3 bars of soap at 9,000/=

a) How much money did he spend altogether?

(4mks)

b) If he was given a change of sh.2,000/=-, how much money did he go with?

(2mks)

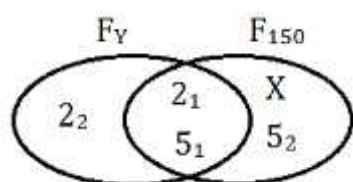
31(a) A mother shared her salary among 3 children Nakato, Babirye and Kizza in a ratio

of 2:3:5 respectively, if Babirye got 60,000/=. Find the mother's salary. (3mks)

b) How much money did Nakato get? (1mk)

c) How much money did Kizza get? (1mk)

32. Study the Venn diagram below and use it to answer questions that follow.



i) Find the value of Y. (1mk)

ii) Find the value of X. (1mk)

iii) Find the GCF of Y and 150. (1mk)

iv) Find the LCM of Y and 150. (2mks)

\*\*\*\*\***GOD BLESS**\*\*\*\*\*