



# THE PROLINE EDUCATION SERVICES

P.5 MID TERM II 2022

## MATHEMATICS

Time Allowed: 2 hours 15 minutes

Name: ..... Stream: .....

School: .....

Read the following instructions carefully.

1. Do not open the booklet until you are told to do so.
2. This paper has got **two** sections: **A** and **B**.
3. Section **A** has **20** questions (**40marks**) and Section **B** has **12** questions (**60mks**)
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. **Un necessary** alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.

### FOR EXAMINER'S USE ONLY

| SECTION A |  | Total (%) |
|-----------|--|-----------|
| SECTION B |  |           |

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## SECTION A

1. **Subtract:**  
**35 – 12**

2. Write **6,518** in words.

3. What number is represented by the following tallies?



4. **Add:**

| m     | cm |
|-------|----|
| 24    | 65 |
| + 05  | 13 |
| <hr/> |    |
| <hr/> |    |

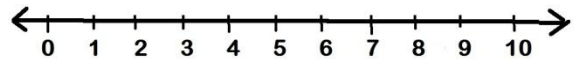
5. **Solve for y.**  
 $y + 3 = 11$

6. Given that  represents **10** tomatoes, how many tomatoes are represented by

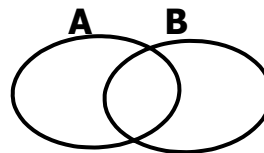


7. Use a number line to work out.

**$2 \times 4$**



8. Shade **A ∪ B** of the Venn diagram below.



9. **Add** the fraction  $\frac{1}{2} + \frac{1}{3}$

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10. List the factors of **12**.

11. **Multiply:**

$$\frac{1}{3} \times \frac{2}{4}$$

12. Find the square of **5**.

13. Expand 2467 using values .

14. Lukwanya bought a pair of shoe at **Sh. 80,000** and later sold it at **Sh. 75,000**.  
How much loss did he make?

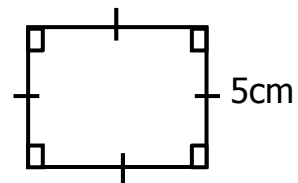
15. **Expand 325** using values.

16. **Work out:**

$$\begin{array}{r} 234_{\text{five}} \\ + 103_{\text{five}} \\ \hline \end{array}$$

17. Reduce  $\frac{8}{10}$  to its lowest term.

18. Study the square below and use it to answer the questions that follow.



**Work out the perimeter** of the square above.

19. Write **23** in Roman numerals.

20. Find the **L.C.M** of **6** and **8**.

**SECTION B**

21. Given that **y** = 8, **x** = 3 and **z** = 6.

a) **Work out:**

i)  $y + x + 6$

(1mk)

ii)  $yx - x$

(2mks)

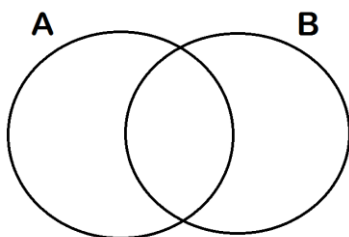
ii)  $\frac{yx}{z}$

(2mks)

22. If set **A** = { 1, 3, 5, 7, 9, 11 } and

set **B** = { 2, 3, 4, 5 }

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



(3 mks)

b) Use the Venn diagram above to find;

i) **A** only

(1mk)

ii) **A**  $\cap$  **B**

(1mk)

23. In a class of **60** pupils,  $\frac{2}{3}$  are boys and the rest are girls.

a) Find the fraction of girls.  
(1mk)

b) How many boys are in the class?  
(2mks)

c) How many girls are in the class?  
(2mks)

24. Find the value of the unknowns in the following.

i)  $x + 10 = 15$  (2mks)

ii)  $y - 12 = 19$  (1mks)

iii)  $2c = 20$  (1mk)

25.a) Olaki is **9** years older than Melissa. If Melissa is **23** years old, how old is Olaki? (2mks)

b) Calculate the sum of their age? (2mks)

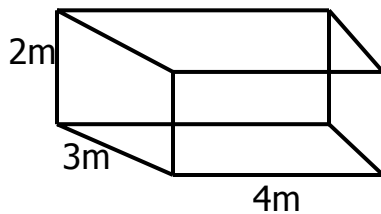
c) How old will Olaki be in **3** years to come? (2mks)

26. Zungulu went for shopping and bought the following items.  
- **2kg** of sugar at **Shs. 3000** each kg.  
- **3** heaps of tomatoes at **Sh. 1000** each heap.  
- **2** litres of cooking oil at **Sh. 2000** each litre.

a) Find the total amount, he used altogether? (4mks)

b) If Zungulu had **Sh. 15,000** before, how much money was his balance? (2mks)

27. Study the shape below and use it to answer the questions that follow.



- a) Name the box above. (1mk)

- b) How many faces does it have? (2mks)

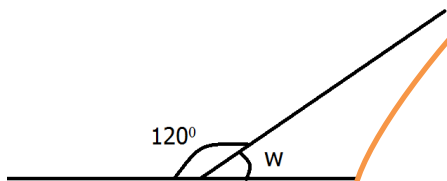
- c) Calculate its **volume**. (3mks)

28. Work out :

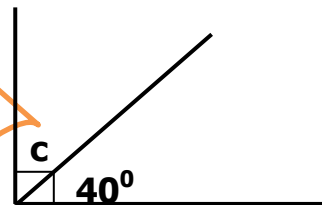
a)  $+6 + ^{-}2 =$  (2mks)

b)  $^{-}3 + ^{-}5 =$  (3mks)

- 29.a) Work out the value of **w** in degrees. (2mks)



- (b) Calculate the value of **c** in the figure below. (2mks)



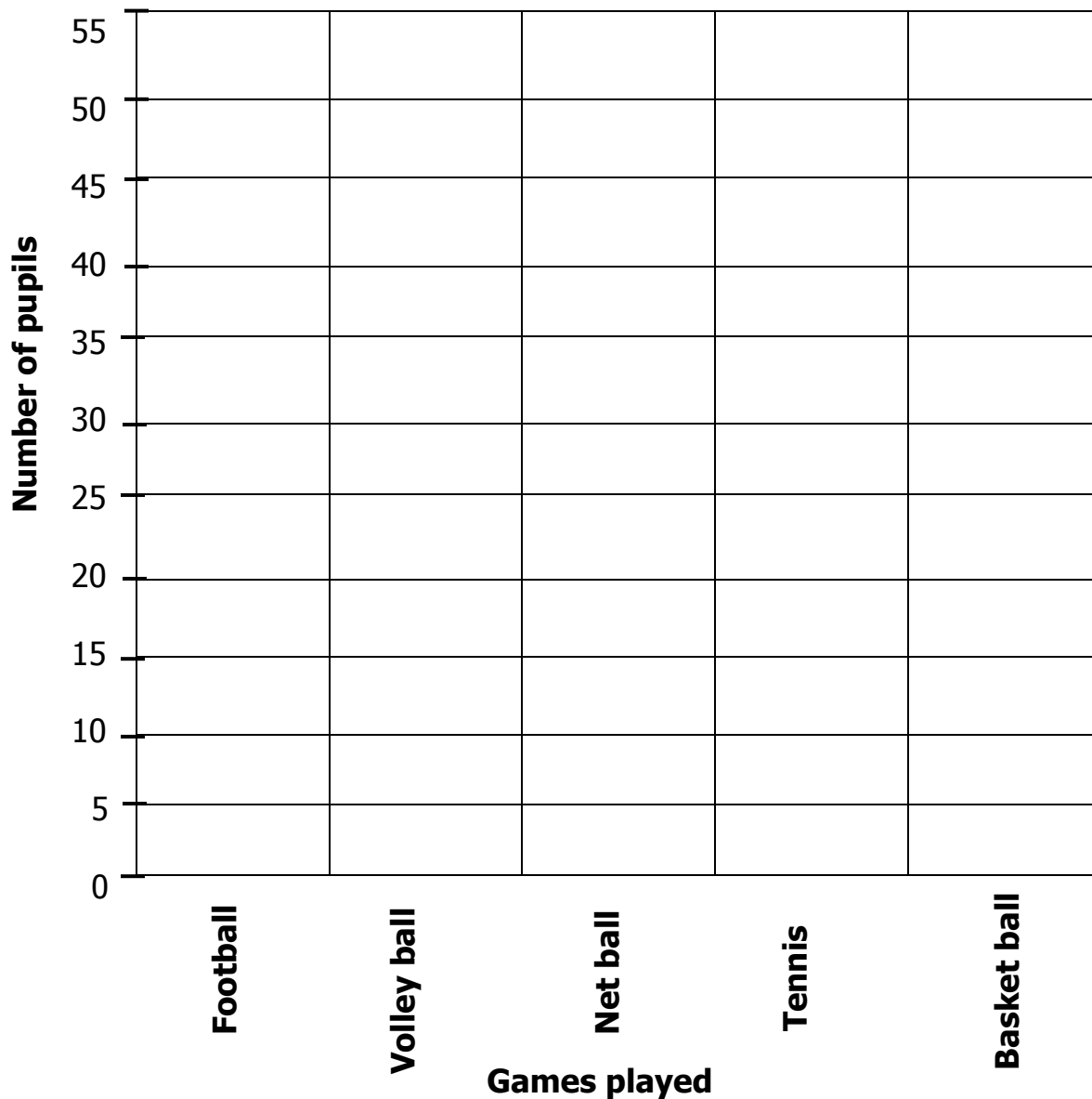
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30. In a primary school, each pupil plays only one game. The pupils who play each game are given below.

**football - 55**  
**Volley ball - 45**  
**Net ball - 40**  
**Tennis - 20**  
**Basket ball- 40**

**Show the above information on a bar graph below.**

**(5mks)**



31. Arrange  $\frac{1}{2}$ ,  $\frac{3}{4}$ ,  $\frac{1}{3}$  in ascending order. (show the working)

(5mks)

32. (a) Work out:  $0.25 + 0.3$

(2 mks)

(b) Find the value of 6 in 0.36

(2 mks)

**END**

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