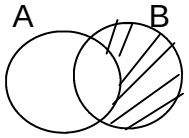
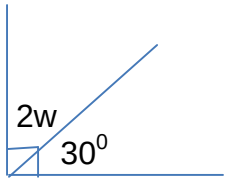
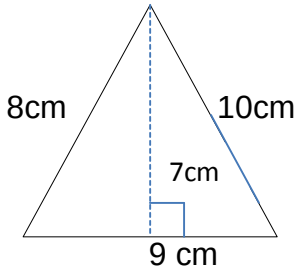
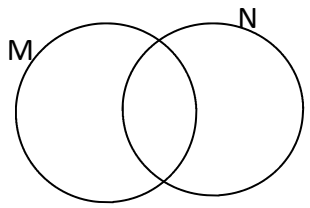
## SECTION A

| | | | |
|---|---|---|---|
| 1. | Add 243 + 57 | 7. | Solve for m: 3m + 4 = 13 |
| 2. | What is the value of 4 in 3479? | 8. | Describe the shaded part below.<br>  |
| 3. | If set X = {0, 2, 4, 6,8} and set Y={1, 2, 3, 5, 6, 7}. Find XnY. | 9. | Wanyera bought a shirt at shs. 6300 if he sold it at shs. 4800. What was his loss? |
| 4. | Reduce $\frac{20}{28}$ to its lowest term. | 10. | A dice is tossed once. What is the probability that a number less than 5 shows up? |
| 5. | Find the next number in the sequence below. 1, 4, 9, 16, …… | 11. | Round off 58.74 to the nearest tenths. |
| 6. | In the space below draw an angle of $75^0$ using a ruler and a protractor. | | |

| | | | |
|---|---|---|---|
| 12. | Simplify; $\frac{2}{5} + \frac{1}{3}$ | 17. | What number has been expanded to give (9x10000) + (6x100) + (7x1000) + (8x1) |
| 13. | Arrange the integers -4, +1, 0, -1 and +3 starting with the smallest. | 18. | Find the value of w degrees   |
| 14. | A parents –teachers' meeting started at 8:25am and ended at 12:55pm. How long did the meeting take? | 19. | Find the total distance around the triangle below.   |
| 15. | Write 0.25 as a fraction in its lowest term. | 20. | A motorist covered a distance of 240km in 3 hours. Find his speed in km/hr. |
| 16. | Subtract $\begin{array}{r} 4\ 2\ 3_{\text{five}} \\ -\ \ 1\ 4_{\text{five}} \\ \hline \\ \hline \end{array}$ | | |

## SECTION B

21. i) Given that set M={0, 1, 2, 3, 4, 5, 6} and set N = {2, 4, 6, 7, 8, 9}
Represent the information on the venn diagram below.
(2marks)




ii. Find M∩N (1mark)

ii. M – N
(1mark)

iv. What is n(MUN)
(1mark)

22. a Given that x=4, y=3 and p=5. Find the value of py – 2x.
(1mark)

b) Simplify; 9m + 5p – 2m + 3p
(1mark)

c) I think of a number add 8 to it the result is 23. What is the number? (2marks)

23. a) What is the sum of the values of 3 and 9 in the number 3978. (2marks)

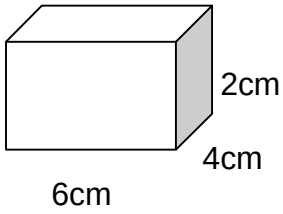
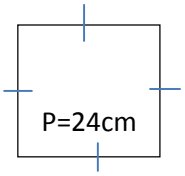
b) Expand 5438 using powers of ten. (1mk)

c) Arrange 2.0, 0.2, 2.2, 0.22 in ascending order.
(2marks)

24. The table below shows eggs collected from Opolot's poultry farm in a week.

| Day | Mon | Tue | Wed | Thu | Fri | Sa | Su |
|---|---|---|---|---|---|---|---|
| No. of eggs | 3 | 4 | 3 | 10 | 4 | 3 | 8 |

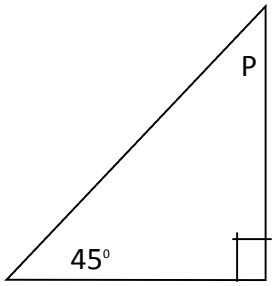
a) Find the mode. (1mark)

| | | | |
|---|---|---|---|
| b) | Find the range. (1mark) | b) | The figure below is a cuboid use it to answer questions that follow.<br>  <br><br>How many vertices has it. (1mark) |
| c) | What is the mean (Average number of eggs. (2marks) | | |
| 25.<br>a) | Prime factorise 36 and give your answer in subscript form. (2marks) | c) | Find its volume. (2marks) |
| b) | Find the GCF of 12 and 18. (2marks) | 27. | In a class of 40 pupils $\frac{2}{5}$ are girls and the rest are boys. |
| c) | Workout the square root of 64. (2mks) | i) | How many girls are in the class? (2marks) |
| 26<br>a) | The perimeter of a square is 24cm as shown below. Find the length of one side. (2marks)<br>  <br> | ii) | How many more boys than girls are in the class? (2marks) |

b) How many half litre cups can be filled from a 5 litresjerrican of milk? (2mks)

28 a) Using a ruler and a pair of compasses only construct an equilateral triangle of sides measuring 4 cm (3mr ks)

Find the size of angle p below. (2mks)




29. a) Express 9ten in binary base. (1mk)

b) Workout 3 + 4 = ..... (finite 5) (1mk)

c) Simplify 7 - $^{-}$2 (2mks)

28. a) In Kiwafu Primary School there are 735 boys and 548 girls. How many children are in the school altogether? (2mks)

b) The cost of one unit of Warid network is 380/= if Kirabo bought 5 units. How much money did she spend? (2mks)

c) Work out (2mks)

| Kg | gram |
|---|---|
| 75 | 350 |
| 39 | 650 |

31. Study and complete the shopping table below showing Timothy's expenditure.

| **Item** | **Quantity** | **Unit cost** | **Total amount** |
|---|---|---|---|
| Sugar | 2kg | Shs. 3000 | Shs. …… |
| Rice | …… | Shs. 1500 | Shs. 4,500 |
| Meat | 3 kg | …… | Shs. 12,000 |
| Soap | …… | Shs. 2,000 | Shs. 6,0000 |
| Total | | | Shs. …….. |

b) If he had shs. 30,000. How much balance (change) did he get? (2marks)

32. The table below shows milk production in Kasibante's farm in 5 days. Use it to answer questions that follow.

| Days of the week | Mon | Tue | Wed | Thu | Fri |
|---|---|---|---|---|---|
| Milk in litres | 50 | 40 | 45 | 30 | 35 |

a) Show the above information of the graph below and shade it. (5marks)