

**Read the following instructions carefully:**

1. This paper has two Sections: A and B.
2. Section A, has 20 short-answer questions (40 marks) and Section B has 12 questions (60 marks).
3. All the working for both sections A and B must be shown in the spaces provided.
4. All working must be done using a blue or black ball-point pen or fountain pen. Diagrams should be drawn in pencil.
5. No calculators are allowed in the examination room.
6. Unnecessary changes of work may 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**".

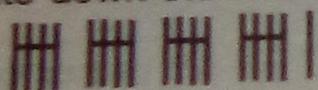
**SECTION A: (40 Marks)**

**Answer all questions in section A and each number carries 2 marks.**

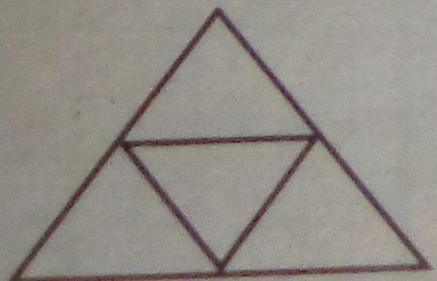
1. Work out:  $12 \times 3$ .

2. Find the place value of 4 in 26.49.

3. If  $a = 19$  and  $b = 43$ . Find  $a + b$ .

4. Write down the number represented by  


5. On the shape below, shade  $\frac{1}{2}$  of it.



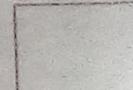
6. Expand 6253.

7. Find the next number.  
10, 12, 15, 17, 20, \_\_\_\_\_.

8. Jovan slashed  $\frac{3}{10}$  of the compound and Toofa slashed  $\frac{4}{10}$  of the compound. What fraction did they slash?

9. Calculate the LCM of 6 and 8.

10. If 3 cups cost sh.1800, find the cost of one cup.



11. Round off 472 to the nearest hundreds.

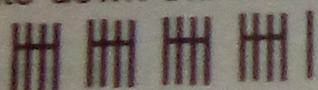
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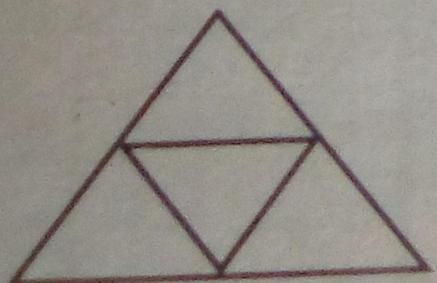
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**SECTION B: (60 Marks)**

*Answer ALL questions in this Section.  
Marks for each question are indicated in the brackets.*

21.

- Given the digits 6, 9 and 3;
- (a) Form the largest 3-digit number from the digits. (1mark)

- (b) What is the value of 3 in the smallest 3-digit number from the digits. (2marks)
- (c) Find the sum of the largest and the smallest numbers formed. (2marks)

22. (a) Convert  $7\frac{1}{3}$  to an improper fraction. (2marks)

(b) Express  $\frac{39}{4}$  to a mixed number. (2marks)

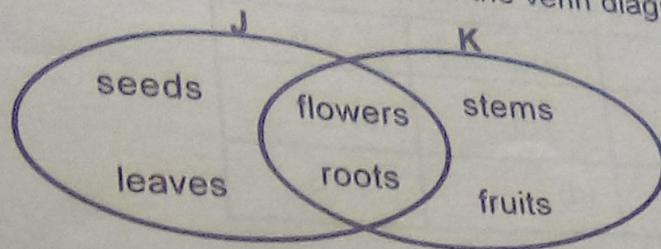
(c) Arrange the fractions below from the largest: (1mark)

$$\frac{4}{15}, \frac{7}{15}, \frac{11}{15}, \frac{2}{15}, \frac{8}{15}$$

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23.

Below are sets represented on the venn diagram.



- (a) List the elements of set J.

(2marks)

- (b) Find  $J \cap K$ .

(1mark)

- (c) How many elements are in the union set?

(2marks)

24. (a) Fill in the missing digits in the number

2  $\square$  0 4  $\square$  2 to form "Two hundred forty thousand four hundred two".

(1mark)

- (b) The place value of 9 in a number is hundred thousand.  
Find the value of 9.

(2marks)

- (c) Find the product of the value of 6 and the value of 4 in 17,654. (2marks)

25.

Find the missing values (a),(b),(c) and (d) in the magic square below.  
 (1mark each)

|           |           |           |
|-----------|-----------|-----------|
| 2         | (a) _____ | 6         |
| (b) _____ | 5         | (c) _____ |
| 4         | (d) _____ | 8         |

Working:

(i)

a

(ii) b

(iii) c

(iv) d

26.

Study the price list below carefully.

1 broom → sh.2000

1 mop → sh.3000

1 packet of omo → sh.1000

1 litre of liquid soap → sh.2500.

Find the total cost of 2brooms, 3mops, 1 litre of liquid soap and  
 4 packets of omo.

(5marks)

27.

(a) A book has 146 pages. Each page has 13 words.

(3marks)

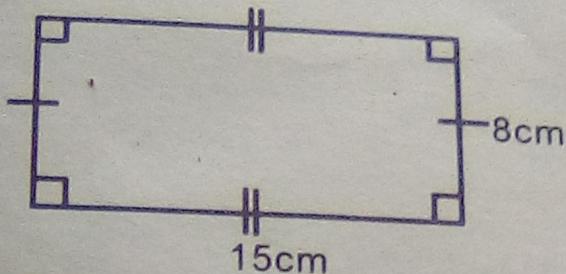
Find the total number of words.

(b) Work out correctly;  $18 - 30 + 17$ .

(2marks)

28.

Below is a shape of card.



(a) Name the shape

(1mark)

(b) Calculate its area.

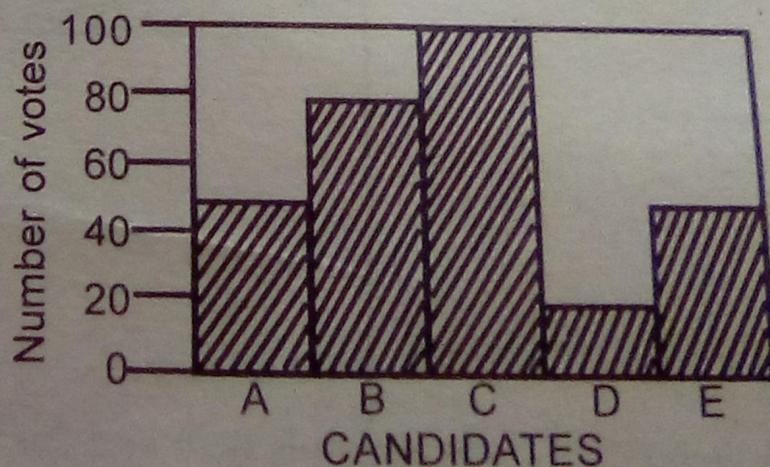
(2marks)

(c) Work out its perimeter. (2marks)



29.

The graph shows the votes got by 5 candidates at local council elections.



(a) Who got the least votes?

(1mark)

(b) How many votes did candidate A get?

(1mark)

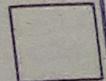
(c) Find the difference of the highest and the lowest votes. (2marks)

(d) Who got the same number of votes? (2marks)

30. (a) Change  $42_{\text{five}}$  to base ten. (2marks)

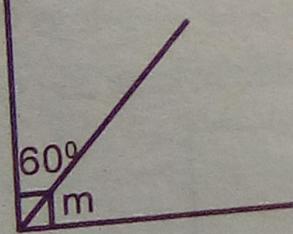
(b) Add:  $222_{\text{five}} + 114_{\text{five}}$  (2marks)

(c) Find the place value of 3 in  $314_{\text{five}}$ . (1mark)

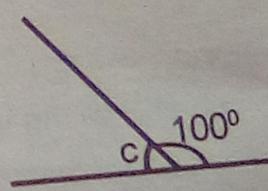


31. In the figures below, find the missing angles. (3marks)

(a)



(b)



(3marks)

32.

Construct a rectangle whose length is 6cm and the width is 4cm, using a pair of compasses, a ruler and a sharp pencil. (4marks)

\*\*\*END\*\*\*