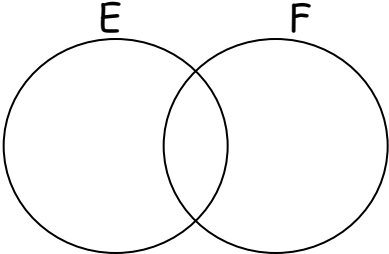
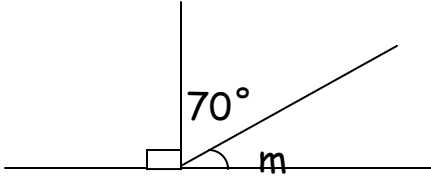


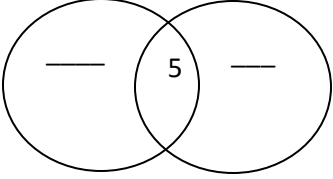
SECTION A

|   |   |   |   |
|---|---|---|---|
| 1 | Subtract: $695 - 362$   | 2 | Work out the square root of 36  |
| 3 | Work out $^{-}3 + ^{-}5$  | 4 | Write in figures:<br>Thirteen thousand, thirteen.   |
| 5 | Solve for x:<br>$5x + 19 = 24$  | 6 | Edward scored the following marks in an exercise.<br>Find his modal mark.<br>45, 50, 60, 55, 60, and 70 |
| 7 | Find the least number of mangoes that can be shared by 8 or 9 boys and leaves 1 as a remainder. | 8 | Simplify: $5y + 7x - 3y + x$  |

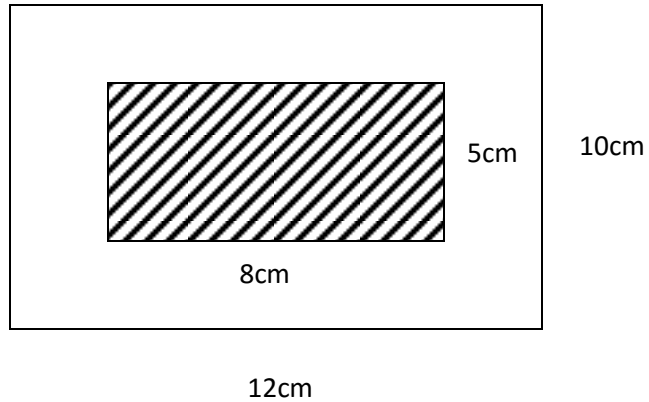
|    |   |    |   |
|----|---|----|---|
| 9  | Find the GCF of 21 and 15   | 10 | Expand $1985$ using exponents.  |
| 11 | Jonathan had 149 mangoes. He gave out 5 mangoes to Annet. Write the number of mangoes he remained with in Roman numerals. | 12 | <p>In the Venn diagram below ,<br/>Shade <math>(E - F)^1</math></p>      |
| 13 | Find the next two numbers in the sequence.<br>2, 3, 5, 7, _____, _____  | 14 | In a box of chalk, there are 4 blue pieces and 6 red pieces. If a piece of chalk is picked at random, what is the probability that the piece picked is red? |

|    |   |    |  |
|----|---|----|--|
| 15 | Work out : $\frac{2}{3} \div \frac{3}{5}$   | 16 | The meeting took $1\frac{1}{2}$ hours, if it started at 9 : 40 pm. At what time did the meeting end?                             |
| 17 | <p>In the figure below, Find the value of m in degrees.</p>  | 18 | Work out : $4 - 5 + 3$   |
| 19 | Find the value of $84^\circ + p^\circ - 1$  | 20 | A taxi carries 14 passengers per trip. How many trips will the taxi make if it is to carry 168 passengers for the wedding party? |

### SECTION B (60 MARKS)

|    |  |
|----|--|
| 21 | <p>At a party attended by 57 people, 30 of them ate meat (M), 20 people ate chicken (C ) only, while 5 people ate both chicken and meat.</p> <p>Represent the above information on a Venn diagram below.</p> <p style="text-align: center;"><math>n(\Sigma) = 57</math> <span style="float: right;">(3marks)</span></p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="margin: 0;"><math>n(M) = 30</math>      <math>n(C) = \underline{\hspace{2cm}}</math></p>  </div> |
| b  | <p>How many people ate only one sauce? <span style="float: right;">(2marks)</span></p>   |
| c  | <p>If a person is to be selected at random, what is the probability of selecting one who does not eat chicken? <span style="float: right;">(1mark)</span></p>  |
| 22 | <p>a) Express 64 in powers of 2 <span style="float: right;">(2marks)</span></p>  |
| b  | <p>The LCM of p and 12 is 36 and their GCF is 6.<br/>Find value of P. <span style="float: right;">(3marks)</span></p>  |

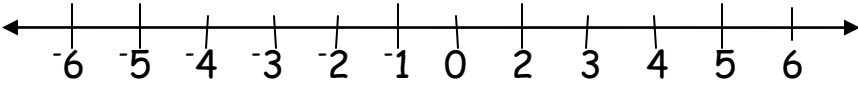
23 Use the figure below and answer questions that follow.

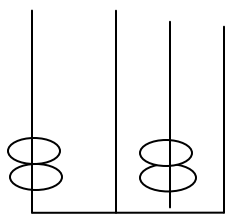


a) Calculate the area of the shaded part. (2marks)

b) Find the area of the outer figure. (2marks)

c) Workout the area of the unshaded part (2marks)

|    |   |
|----|---|
| 24 | <p>Sarah went for shopping and bought the following items.</p> <p>2kg of meat at 6000/= per kg</p> <p><math>1\frac{1}{2}</math> kg of rice at shs. 1200 every kg.</p> <p>500gm of salt at 1200/= per kg.</p> <p>3kg of cassava flour at sh.3000.</p> <p>Calculate her total expenditure. (4marks)</p> |
| b  | <p>If she was given a change of sh 2600, how much money had Sarah given to the shopkeeper? (2marks)</p>   |
| 25 | <p>Use the number line below to work out: <math>-5 - +5</math> ( 4marks)</p>    |

|    |  |
|----|--|
| 26 | <p>Write the number shown on the abacus below in words.(2marks)</p> <p>Th   H   T   O</p>  <p>_____</p> |
| b  | <p>Write 2685 in standard form. (1mark)</p>  |
| c  | <p>Round off 25.06 to the nearest tenths. (2marks)</p>   |

|    |   |
|----|---|
| 27 | <p>In the space below , use a pair of compasses, a ruler and a sharp pencil only to construct a regular hexagon of diameter 6cm<br/>(4marks)</p>  |
| b) | <p>Calculate its perimeter. (2marks)</p>  |
| 28 | <p>Find the set of three consecutive odd numbers whose sum is 93.<br/>(2marks)</p>  |
| 29 | <p>The intersection set for two sets.<br/>A and B is <math>\{ 2_1, 3_1 \}</math>.<br/>( <math>A - B</math>) = <math>\{ 2_2, 3_2, \}</math> and <math>\{ B - A \} = \{ 5_1 \}</math></p> |
| a) | <p>List the members of set A (2marks)</p>   |



|    |  |
|----|--|
| b  | Find the whose prime factors (members are of set B (2marks)  |
| c  | Workout the LCM of set A and set B. (2marks)   |
| 30 | a)Akelo's salary is shs. 1,240,750. It was reduced by shs. 89,850. How much money does she earn now? (2marks)  |
| b  | A pickup can carry 9,000 eggs. If each tray holds thirty eggs, how many trays of eggs, does it carry? (2marks) |

|   |   |     |     |     |     |          |         |     |     |     |     |     |       |     |     |     |     |     |
|---|---|-----|-----|-----|-----|----------|---------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 31  | The table below shows marks scored by Rocky |     |     |     |     |          |         |     |     |     |     |     |       |     |     |     |     |     |
| <table><tr><td>Subject</td><td>MTC</td><td>SST</td><td>SCI</td><td>ENG</td><td>CRE</td></tr><tr><td>marks</td><td>40%</td><td>45%</td><td>30%</td><td>45%</td><td>35%</td></tr></table> |   |     |     |     |     |          | Subject | MTC | SST | SCI | ENG | CRE | marks | 40% | 45% | 30% | 45% | 35% |
| Subject   | MTC   | SST | SCI | ENG | CRE |          |         |     |     |     |     |     |       |     |     |     |     |     |
| marks   | 40%   | 45% | 30% | 45% | 35% |          |         |     |     |     |     |     |       |     |     |     |     |     |
| a)  | What is the modal mark?                     |     |     |     |     | (2marks) |         |     |     |     |     |     |       |     |     |     |     |     |
| b)  | Find the median mark.                       |     |     |     |     | (1mark)  |         |     |     |     |     |     |       |     |     |     |     |     |
| c)  | Calculate his mean mark.                    |     |     |     |     | (2marks) |         |     |     |     |     |     |       |     |     |     |     |     |
| 32  | Solve: $2x = 32$                            |     |     |     |     | (2marks) |         |     |     |     |     |     |       |     |     |     |     |     |
| b)  | If $a = 6$ and $b = 2$ , Find $ab + a$      |     |     |     |     | (2marks) |         |     |     |     |     |     |       |     |     |     |     |     |

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