

THE PRIME EXAMINATIONS 2024 P.7 MAGIC SET I

MATHEMATICS

| Time | allowe | d 2 | lours | 30 r | ninutes |
|------|--------|-----|-------|------|---------|
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|-------------------|-------|--------|--------------|---|-------|---|
| INDEX NO: | | | | T | | |
| Candidate's Name | l: | | | | | ••••••• |
| Candidate's Signa | ture: | •••••• | | | 1 | FOR WELL EXPLAINED LESSON VIDEOS WITH EXPLIT TEACHERS |
| District ID No.: | • | | ************ | | B | DOWNLOAD THE PRIME LEARN APP |

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- 1. Do not write your school or district name anywhere on this paper.
- 2. This paper has two sections: A and B Section A has 20 questions and section B has 12 questions. The paper has 9 printed pages.
- 3. Answer all questions. 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 ink. Any work done in pencil other than graphs and diagrams will not be marked.
- 5. No calculators are allowed in the examination room.
- 6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.
- 7. Do not fill anything in the table indicated "For Examiners' use only", and those boxes inside the question paper.

| FOR EXA | MINERS' US | EONLY |
|--------------------|-------------------|----------|
| QUESTION NUMBER | MARKS ATTAINED | INITIALS |
| 1 - 5 | | |
| 6 – 10 | | |
| 11 - 15 | | |
| 16 – 20 | | |
| 21 - 22 | | 1 |
| 23 - 24 | | |
| 25 -26 | | |
| 27 - 28 | | |
| 29 - 30 | | |
| 31 - 32 | | |
| TOTAL | | |

Mathematics Department (PEC)

PUBLISHERS OF: -

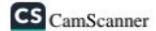
THE PRIME, SCHEMING FRAME WORKS, PUPILS' WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES, LEARNING GAMES AND MORE

Organised by: Prime Educational Consult

@2024

Kampala

Turn Over





| | Section A (40 | Mai | rks) |
|-----------------------------|---|------|---|
| he ferradian felin from Mit | Workout: 6 7 -2 5 | 2 | Express 49 in Roman numerals. |
| WARNING . | Simplify: 6x + 4m + x - 3m | 4 | Describe the unshaded region in the Venn diagram below. |
| 5 | Round off 13.846 to the nearest whole | numi | ber. |
| 6 | Using a ruler, a pencil and a pair of coparallel to line DC at point X. | mpa | sses only, construct a line PQ |
| | • X | | |
| | D | | C C C C C C C C C C C C C C C C C C C |

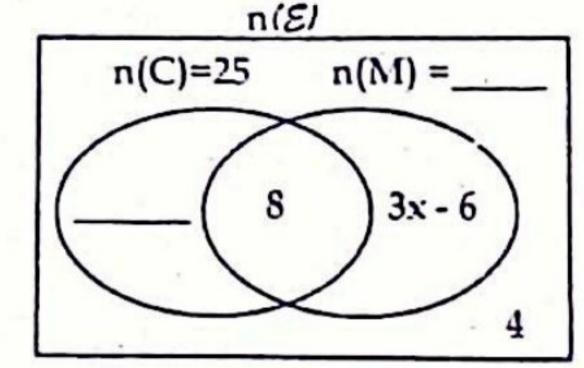
| 7 And the second desirable of the State of t | A boy bought 1750 grams of salt. How many kilograms did the boy buy? | 8 | Given that B represents 4 trees. Draw such pictures to represent 20 trees. |
|--|--|------|--|
| 9 | Work out: 2c - 1 = 4 (finite 7) | 10 | Find the next numbers in the sequence; 84, 56, 35, 20, 10, |
| 11 | Study the Venn diagram and find the | valu | e of x. |
| | 7x-30°// / / / / / / / / / / / / / / / / / / | | |
| 12 | Tumusiimwe covered a distance of 170 which Tumusiimwe was moving. | km | in 4 - hours. Calculate the speed at |
| | | | |
| | | | |
| 13 | Write 11 as base two numeral. | -14 | Find the maximum number of girls who can share 6 or 8 mangoes leaving no remainder. |
| | | | . And the fact that the fact t |
| | | | TANKAL AND THE PARTY OF THE PAR |

| A farmer deposited sh.360,000 in a bank at an interest rate of 15% per month- for 4 months. Calculate the farmer's simple interest. Given point K (-3, 0), plot the co-ordinates of point IC on the grid below. (IJ mark) 2 3 4 y-axis (a) Write the coordinates of point T. (01 mark) 17 A motorist started his journey at 1720 hours and reached his destination after two and half-hours. At what time did he reach his destination? | - | to of 150/ per month |
|---|----|---|
| Given point K (-3, 0), plot the co-ordinates of point K on the grid below. (a) (b) mark) 2 3 4 3 2 3 4 5 -2 y-axis (a) Write the coordinates of point T. (01 mark) | 15 | A farmer deposited sh.360,000 in a bank at-an-interest rate of 15 % per month for 4 months. Calculate the farmer's simple interest. |
| (a) Write the coordinates of point T. (01 mark) 17 A motorist started his journey at 1720 hours and reached his destination after | | |
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| y-axis (a) Write the coordinates of point T. (01 mark) A motorist started his journey at 1720 hours and reached his destination after | | (a) (0) mark) |
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| . (a) Write the coordinates of point T. (01 mark) 17 A motorist started his journey at 1720 hours and reached his destination after | | -3 -33 |
| 17 A motorist started his journey at 1720 hours and reached his destination after | | y-axis |
| 17 A motorist started his journey at 1720 hours and reached his destination after two and half hours. At what time did he reach his destination? | | (a) Write the coordinates of point T (01 mark) |
| 17 A motorist started his journey at 1720 hours and reached his destination after two and half hours. At what time did he reach his destination? | | |
| two and half hours. At what time did he reach his destination? | 17 | A moderate description of the |
| | 17 | two and half hours. At what time did he reach his destination? |
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| 18 | Solve the inequality: 2k - 6 ≤ -10 | 9 | The cost of buying 3kg of coffee is sh 27,000. Find the cost of buying 5kg of coffee at the same rate. |
|----|---|-----|--|
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| | | | |
| 20 | Florence fenced has recharded | | and that severe a total distance of |
| 20 | Florence fenced her rectangular piece of 0.04km using poles fixed at an interval of she used. | f 5 | 5metres. Find the number of poles |
| | | | |
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| | Section B (| 60 | Marks) |
| 21 | The diagram below shows the addition and answer the questions that follow. | of | f numbers using abacus. Study it |
| | # T 0 TH H T | 0 | TH H T O |
| | (a) Complete the above abacus correctly | /- | (05 marks) |
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- In a certain village, 25 farmers were given cassava stems (C), (3x-6) farmers were given maize seeds (M) and 8 farmers received both cassava stems and maize seeds while 4 farmers got none of the above.
 - (a) Use the information above to complete the Venn diagram below.

(02 marks)

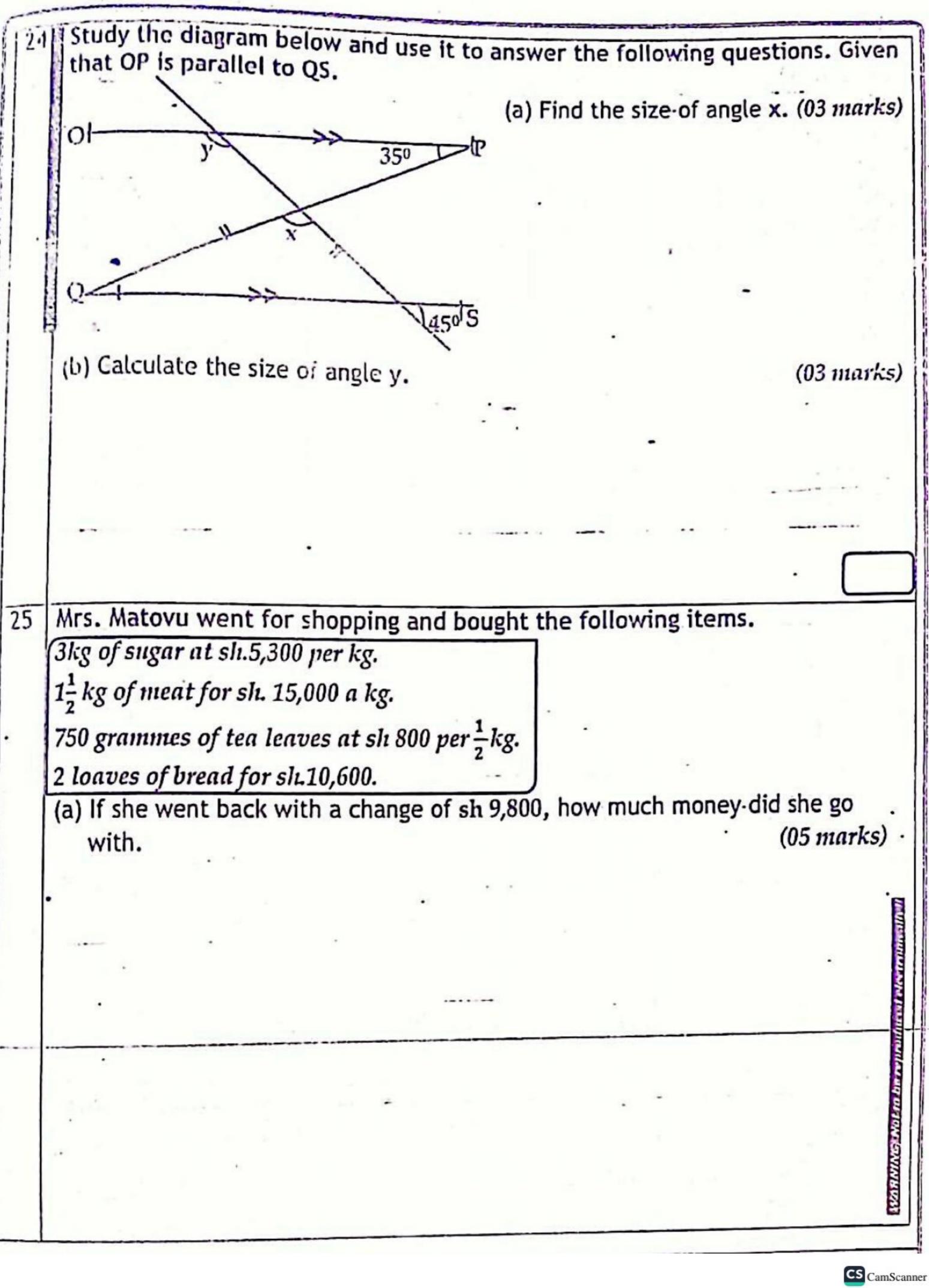


(b) Given that 26 farmers got maize seeds, find the value of x. (03 marks)

23 (a) Workout: <u>0. 24 - 0.08</u> (03 marks)

(b) Workout: 3. 41 - 7.31 + 5.06

(02 marks)



| The transit | A motorist left Soroti at 1:20pm moving at a speed of 54km/h. He reached Mbale at 3:50pm. The motorist then left Mbale after half an hour for Jinja moving at a speed of 85km/h for 2 hours. Calculate the average speed of the motorist for the whole journey. (05 marks) |
|-------------------------|---|
| WARNING North Detropied | |
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| | |
| 27 | The cylindrical tank below contains 30.8 litres of petrol when completely full. |
| | (a) Find its height. ($\pi = \frac{22}{7}$) (03 marks) |
| | |
| | (b) Find the capacity of the tank when it's $\frac{3}{4}$ full of water. (02 marks) |
| | |

| (38 | The pupils scored the C. II | | | | | |
|-----|--|--|--|--|--|--|
| 20 | The pupils scored the following marks in a test as shown on the table below. Number of pupils 80 60 90 70 | | | | | |
| | Marks 80 60 90 70 | | | | | |
| | | | | | | |
| | (a) Find the value of n, if the average score was 71. (03 marks) | | | | | |
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| | (b) Find the number of pupils who scored below the mean mark. (02 marks) | | | | | |
| | (02 marks) | | | | | |
| | | | | | | |
| 29 | In the village meeting, the number of men, children and women are in the ratio of 2:5:3 respectively. If the number of successions is the second seco | | | | | |
| | of 2:5:3 respectively. If the number of women in the meeting is 40 less than the number of children. | | | | | |
| | number of children. | | | | | |
| | (a) Find the number of people in the village meeting. (03 marks) | | | | | |
| | (co manne) | | | | | |
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| | | | | | | |
| | | | | | | |
| | (b) Hour | | | | | |
| | (b) How many more women than men are in the meeting? (02 marks) | | | | | |
| | | | | | | |
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| | | | | | | |
| 30 | Shidy the diament 1.1 | | | | | |
| 50 | Study the diagram below and answer the questions about it. | | | | | |
| | D | | | | | |
| | (a) Find the area of ABCD. (02 marks) | | | | | |
| | 17m /14m | | | | | |
| | F/ m | | | | | |
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| | (b) Workout the length of EF. |
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| 31 | At Mrs Kabaho's shop, the cost of a pen is sh 700 less than the cost of a book. |
| | The cost of a book is three quarters the COSE Of a sec. If the section of all the |
| | 3 items is sh 14300. Find the total cost of two books and two sets. (05 marks) |
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| 20 | · · · · · · · · · · · · · · · · · · · |
| 32 | A plane flew to airport B from airport A on a bearing of 225° covering a distance of 450km. It later changed its direction and flew North of airport B to |
| | airport C a distance of 250km. If 1cm represents 50km, |
| | (a) draw an accurate diagram showing the 3 airports. (04 marks) |
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| | (b) calculate the short distance from airport A to airport C. (01 mark) |
| | (b) calculate the short distance from airport A to airport C. (01 mark) |
| | |
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| | REVISION TIP |
| | Revision time tables will help you to focus on the topics you need to |
| | revise. Aim at doing a few hours of revision each day and mix up your |
| | subjects so that you do not get bored. |

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