

# KPSEA 2023 603HI 🔯 MATHEMATICS

# **Oct. 2023 – 1 hour 20 minutes**

# **INSTRUCTIONS TO CANDIDATES (Please read these instructions carefully)**

- 1. You have been given this question paper and a separate answer sheet. The question paper contains 30 questions. Answer **ALL** the questions.
- 2. Do any necessary rough work in this question paper.
- 3. When you have chosen your answer, mark it on the ANSWER SHEET, not in this question paper.

# **HOW TO USE THE ANSWER SHEET**

4. Use an ordinary pencil.

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5. Confirm that the answer sheet that you have been provided with has the following:

YOUR ASSESSMENT NUMBER YOUR NAME NAME OF YOUR SCHOOL NAME OF SUBJECT

- 6. Do not make any marks outside the boxes.
- 7. Keep the answer sheet as clean as possible and do not fold it.
- For each of the questions 1 30, four choices are given. The choices are lettered A, B, C and D.
  In each case, only ONE of the four choices is correct. Choose the correct answer from the choices.
- 9. On the answer sheet, show the correct answer by drawing a **dark line** inside the box in **which the letter you have chosen is written.**

#### Example: In the Question Paper

- 11. Which one of the following decimals are arranged from the smallest to the largest?
  - A. 0.25, 0.5, 0.3, 0.75
  - B. 0.75, 0.5, 0.3, 0.25
  - C. 0.25, 0.3, 0.5, 0.75
  - D 0.3, 0.25, 0.5, 0.75

The correct answer is C.

#### **On the Answer Sheet:**

In the set of boxes numbered **11**, draw a **dark line** inside the box with the letter C printed in it as indicated below.

- 11 [A] [B] <del>[C]</del> [D]
- 10. Your dark line MUST be within the box.
- 11. For each question, **ONLY ONE** box is to be marked in each set of four boxes.

### This question paper consists of 12 printed pages

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1. Lorries delivered 84072 bags of maize to a refugee camp. What is the number of bags of maize in words?

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- A. Eighty thousand four hundred and seventy two
- B. Eighty four thousand seven hundred and two
- C. Eighty four thousand and seventy two
- D. Eighty four thousand seven hundred and twenty
- 2. In a hospital, 436587 children were vaccinated against polio in a certain year. What is the total value of digit 6 in the number?
  - A. 600
  - **B**. 6000
  - C. 60000
  - D. 600000

**3.** A tree nursery had 368593 seedlings. Customers bought 27364 tree seedlings in a day. How many tree seedlings remained?

- A. 395957
- B. 341239
- C. 341229
- D. 94953
- 4. A milk processing factory produced 19468 packets of milk. How many packets of milk to the nearest thousands were produced?
  - A. 20000
  - **B**. 19500
  - C. 19470
  - **D**. 19000

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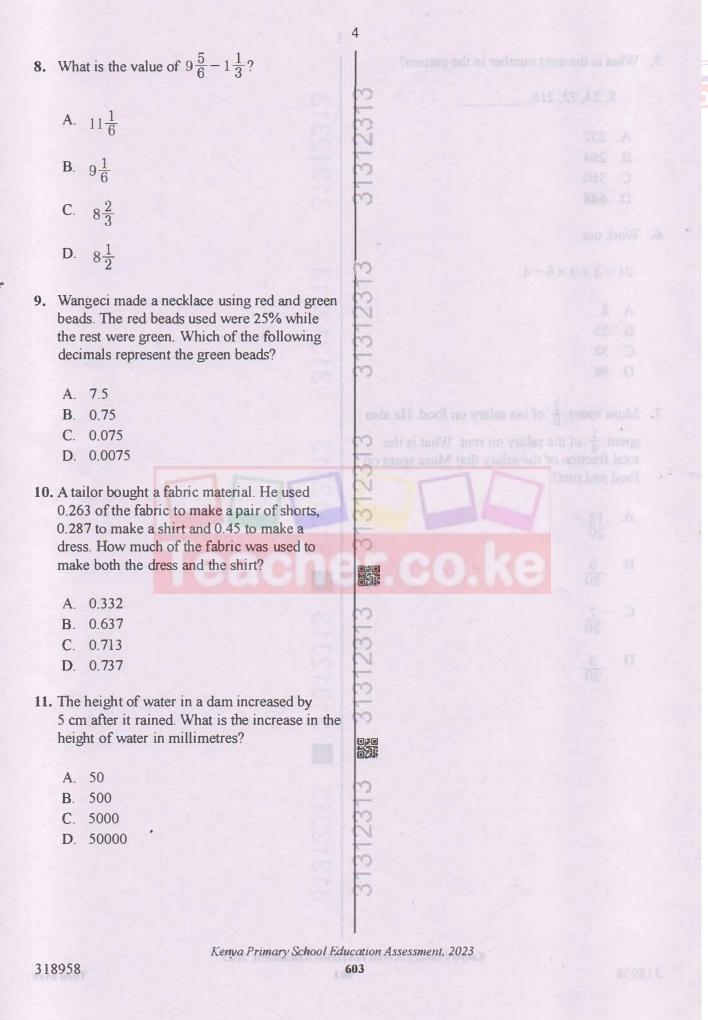


|       | 1   | 3                               |   |                  |  |
|-------|---|---------------------------------|---|------------------|--|
| 5. Wh | at is the next number in the pattern?                 | $\frac{1}{2}$                   |   |                  |  |
|       | 8, 24, 72, 216,                                       | 0                               |   |                  |  |
|       |   | 3                               |   |                  |  |
|       | 232<br>264  | N                               |   |                  |  |
|       | 360   | 31                              |   |                  |  |
|       | . 648   | 3                               |   |                  |  |
| 6. Wo | rk out  |                                 |   |                  |  |
| 0     | ik out  |                                 |   |                  |  |
| 24    | $3 \div 3 + 9 \times 6 - 4$                           | 3                               |   |                  |  |
| А     | 8   | ners house aning red mid goon   |   |                  |  |
|       | 26  | red beach timed ware 25% white  |   |                  |  |
|       | 58  |                                 |   |                  |  |
| D.    | 98  | 3                               |   |                  |  |
| 7. Mu | sa spent $\frac{2}{5}$ of his salary on food. He also |                                 |   |                  |  |
|       | ant $\frac{1}{4}$ of the salary on rent. What is the  | 0                               |   | 3 *              |  |
| tota  | al fraction of the salary that Musa spent on          | Anna .                          |   |                  |  |
| foc   | d and rent?   | Riber all fereneration the verd |   |                  |  |
| A.    | 13  | Enode to the said (aroad)       |   |                  |  |
|       | 13 20   | the estimated of 45 to make a   |   |                  |  |
| B.    | $\frac{9}{20}$  | - Prufased bra Serbert          |   |                  |  |
|       | 20  |                                 |   |                  |  |
| C.    | 7   | 3                               |   |                  |  |
|       | 20  | 5                               |   |                  |  |
| D.    | $\frac{3}{20}$  | 2                               |   |                  |  |
|       |   | Ord beenson' mab a su testaw to |   | IL Inc           |  |
|       |   | t minod. Whit is the margan in  |   |                  |  |
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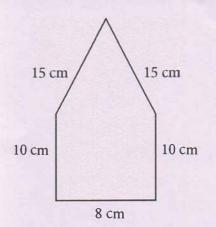
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12. A teacher drew the following shape on the board.



What is the perimeter of the shape?

A. 43 cm

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- B. 48 cm
- C. 50 cm
- D. 58 cm

13. A ribbon is 31 cm 6 mm long. Rehema cut5 cm 3 mm of the ribbon to make a flower.What length of the ribbon remained?

- A. 26 cm 3 mm
- B. 34 cm 3 mm
- C. 36 cm 9 mm
- D. 36 cm 3 mm

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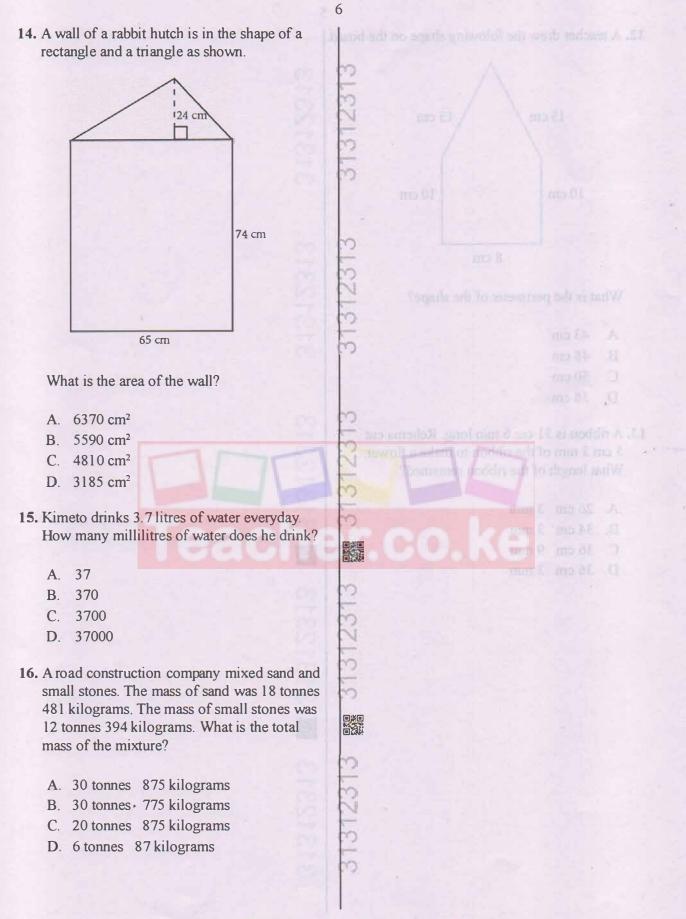
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- 17. A tea processing factory distributed fertilizer to farmers using 4 lorries. Each lorry carried 24 tonnes 235 kilograms of fertilizer. What was the total mass of the fertilizer distributed?
  - A. 96 tonnes 940 kilograms
  - B. 96 tonnes 920 kilograms
  - C. 96 tonnes 840 kilograms
  - D. 86 tonnes 940 kilograms
- **18.** A flower company exported 4850000
- kilograms of fresh flowers. How many tonnes of fresh flowers did the company export?
  - A. 485000
  - **B**. 48500
  - C. 4850
  - D. 485

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**19.** Wambua represented his school in a music festival. He began his performance in the afternoon at the time shown on the clock face.



At what time did Wambua begin his performance?

- A. 2.07 p.m.
- B. 2.35 a.m.
- C. 2.35 p.m.
- D. 3.35 p.m.

The table shows a travel timetable for a training from Marga station to Pate freeoph Marga.

| 1 2 |  |  |
|-----|--|--|
| to" |  |  |
| N   |  |  |
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> 8.0 A 8.0 A 8.0 A 9.0 A

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**20.** The table shows a travel timetable for a train from Manga station to Pate through Nanga.

| Station | Arrival time | Departure time |
|---------|--------------|----------------|
| Manga   |              | 6.15 a.m.      |
| Nanga   | 8.30 a.m.    | 8.40 a.m.      |
| Pate    | 11.54 a.m.   |                |

A tourist travelled from Manga station to Pate using the train. How long did the journey take?

- A. 5 hours 39 minutes
- B. 3 hours 24 minutes
- C. 3 hours 14 minutes
- D. 2 hours 15 minutes
- 21. Ndemo assists his father to sell clothes in their shop. He sold a dress for sh 1 675. He made a profit of sh 390 after selling the dress. What was the buying price of the dress?
  - A. sh 2 065
  - B. sh 1 385
  - C. sh 1 325
  - D. sh 1 285

22. The area of a rectangular piece of paper is 72 cm<sup>2</sup>. The length of the paper is 9 cm. What is the width of the paper in millimetres?

- A. 0.8
- B. 8
- C. 80
- D. 800

to farmer using 4 lontes Each long quined 24 senses 215 hilograms of forthings. When a way the total traces of the forthings distributed

A. A flower company expended 4830000 hilderatus of firsts flowers. He is many tom of fursts flowers did the company expect?

4. Wambon represented introduced in a music feativel, life began his performance in the afternoon in the time shown on the clock 0.

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- A 207pm A 2511m C 211pm B 135pm

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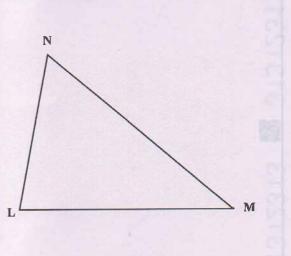
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**23.** Omondi drew accurately the triangle shown on a piece of paper.

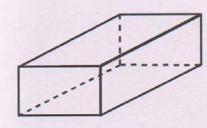


Measure angle LMN using a protractor. What is the size of angle LMN?

A. 100°

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- B. 80°
- C. 60°
- D. 40°
- 24. While picking litter in the school compound, Munya picked the following 3-D object.



How many edges does the object have?

- A. 6 B. 8
- C. 9
- D. 12

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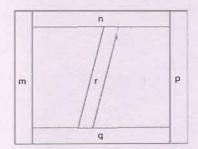
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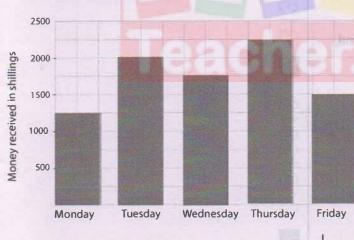
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Which of the following pieces of timber are parallel?

- A. r and p
- B. m and n
- C. n and q
- D. r and q
- 26. Grade 6 learners harvested tomatoes from their agriculture project. The bar graph shows the amount of money received from Monday to Friday after selling the tomatoes.



How much money did the learners receive on Wednesday?

| Α. | sh 2 250 |
|----|----------|
| Β. | sh 2 000 |
| C. | sh 1 750 |

D. sh 1 500

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- 27. During a geometry lesson, learners were asked to describe the faces of a cylinder, pyramid, cube and cuboid. Which of the following descriptions was correct?
  - A. A cylinder has a square face
  - B. A pyramid has a triangular face
  - C. A cube has a rectangular face
  - D. A cuboid has a circular face
- 28. The table shows the number of patients who were treated for various diseases in a dispensary. Some information is missing in the table.

| Disease      | Tally | Number of patients |
|--------------|-------|--------------------|
| Malaria      |       | 12                 |
| Diabetes     | ////  |                    |
| Tuberculosis | THH I |                    |
| HIV/AIDS     |       | 8                  |

How many patients were treated altogether?

A. 30

- B. 20
- C. 29
- D. 10
- 29. Ngei had some oranges. He gave out 4 oranges to his friend. He remained with more than 6 oranges. Use letter p to represent the number of oranges that Ngei originally had. Which of the following inequalities correctly represents this information?
  - A. p 4 < 6B. 6 - p > 4C. p - 4 > 6D. p - 6 < 4

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- **30.** A self-help group shared some money among 50 women. Each woman in the group got sh 8 500. Use letter *x* to represent the amount of money shared. Which of the following equations correctly represents this information?
  - A. 50x = 8500
  - $B. \quad \frac{50}{x} = 8500$
  - C. x + 50 = 8500
    - D.  $\frac{x}{50} = 8500$

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