



THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Primary School Education Assessment

MATHEMATICS

Grade 6

1 hour 20 minutes

INSTRUCTIONS TO CANDIDATES (Please read these instructions carefully)

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

HOW TO USE THE ANSWER SHEET

4. Use an ordinary pencil.
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 sheet as clean as possible and do not fold it.
8. 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, the correct answer is to be shown by drawing a **dark line** inside the box in which the letter you have chosen is written.

Example

In the Question Booklet:

11. Work out $2 \times 18 + 7$

- A. 252
B. 50
C. 43
D. 27

The correct answer is C (43).

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] [C] [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 11 printed pages

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1. There were sixty five thousand and fifty people who attended an agricultural show. What is the number of people in symbols?

A. 60550
B. 65550
C. 60505
D. 65050

2. At the beginning of the year, there were 1204 learners in a school. By the end of the year, 132 learners left the school. At the beginning of the following year, 214 joined the school. How many learners are there in the school now?

A. 1550
B. 1286
C. 1122
D. 858

3. A teacher displayed the following number cards to the learners.

24362

52628

A learner rounded off each number in the cards to the nearest hundreds. What was the sum of the rounded numbers?

- A. 76990
B. 77000
C. 77010
D. 77100
-
4. A factory produced 7435 pieces of soap. The workers packed 1263 pieces of the soap. How many pieces of soap were not packed?

A. 6172
B. 6232
C. 6272
D. 8698

5. A lorry carried 452 cartons of books. Each carton had 24 books. How many books did the lorry carry altogether?

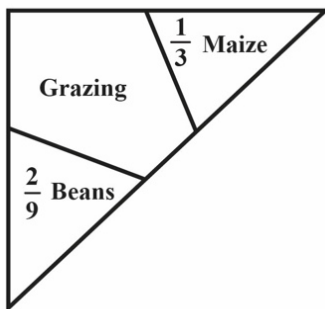
A. 11848
B. 10848
C. 9648
D. 2712

6. Work out

$$64 \div 4 \times 2 + 8$$

A. 160
B. 40
C. 16
D. 4

7. Musa divided his piece of land as shown.



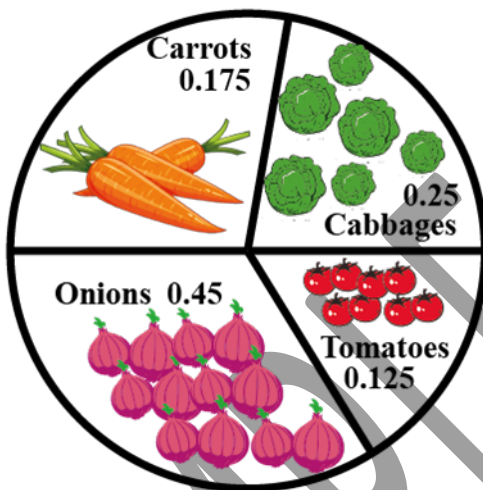
Maize covered $\frac{1}{3}$ of the piece of land while beans covered $\frac{2}{9}$ of the piece of land. What fraction of the land was left for grazing?

A. $\frac{2}{3}$
B. $\frac{4}{9}$
C. $\frac{5}{9}$
D. $\frac{7}{9}$

8. Arrange the fractions $\frac{2}{3}$, $\frac{3}{4}$, $\frac{1}{2}$ from the smallest to the largest. Which one of the following is the correct arrangement?

- A. $\frac{1}{2}$, $\frac{3}{4}$, $\frac{2}{3}$
 B. $\frac{2}{3}$, $\frac{1}{2}$, $\frac{3}{4}$
 C. $\frac{3}{4}$, $\frac{1}{2}$, $\frac{2}{3}$
 D. $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$

9. A trader arranged her green grocery for sale as shown.



What portion was covered by cabbages, tomatoes and onions?

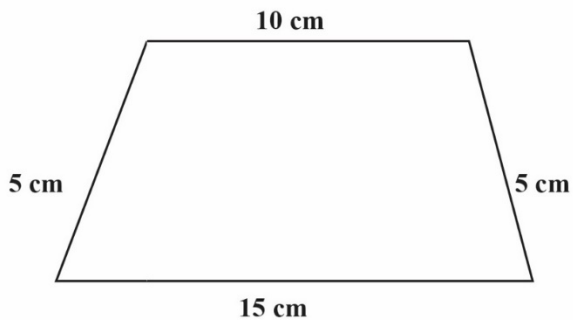
- A. 0.825
 B. 0.700
 C. 0.575
 D. 0.175
10. Arrange the following decimals 0.75, 1.25, 0.8, 1.135 from the largest to the smallest. Which one of the following is the correct arrangement?
- A. 0.75, 0.8, 1.135, 1.25
 B. 0.75, 1.135, 1.25, 0.8
 C. 1.135, 1.25, 0.8, 0.75
 D. 1.25, 1.135, 0.8, 0.75

11. The track shown measures 21 m 45 cm.



Neema ran on the track three times. What distance did she cover?

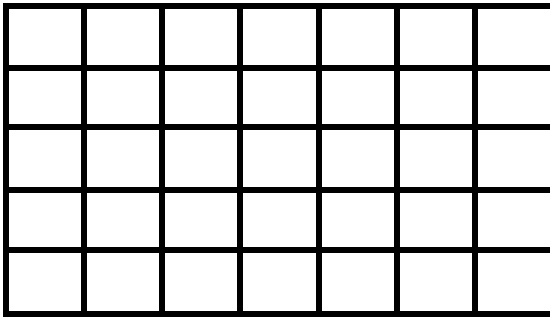
- A. 7 m 15 cm
 - B. 42 m 90 cm
 - C. 64 m 35 cm
 - D. 128 m 70 cm
12. A block of wood is 3 metres long. What is the length of the block of wood in centimetres?
- A. 30
 - B. 300
 - C. 3000
 - D. 30000
13. Find the perimeter of the shape shown.



- A. 20 cm
- B. 25 cm
- C. 30 cm
- D. 35 cm

Working Space

14. The figure shows a rectangle divided into unit squares.

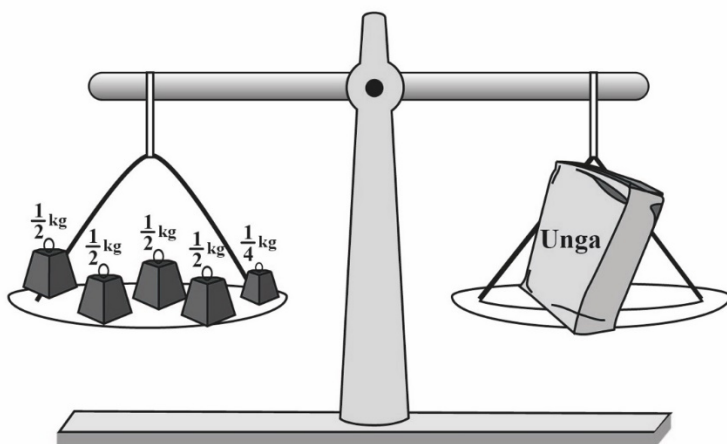


What is the area of the rectangle?

- A. 35
B. 20
C. 12
D. 5
15. Patel had a sh 1000 note. He changed the money into different denominations. Which one of the following represents the correct change?
- A. sh 500 + sh 200 + sh 100 + sh 50 + sh 50
B. sh 200 + sh 200 + sh 200 + sh 200 + sh 100 + sh 50
C. sh 500 + sh 200 + sh 100 + sh 100 + sh 50
D. sh 500 + sh 200 + sh 200 + sh 100
16. A construction worker bought 175 kg of cement, 473 kg of sand and 282 kg of ballast. What is the total mass of the materials bought?
- A. 930 kg
B. 755 kg
C. 648 kg
D. 457 kg
17. What is the next missing number in the pattern?
- 10, 12, 16, 24, 40, _____
- A. 32
B. 42
C. 64
D. 72

Working Space

18. The beam balance shown was used to measure the mass of *unga*.



What is the mass of *unga* in kilograms?

- A. 5
 B. $2\frac{1}{4}$
 C. 2
 D. $1\frac{1}{4}$
19. A trader bought 260 kg of sugar. He then sold 175 kg of the sugar. Later, the trader bought 195 kg to add to the remainder. How many kilograms of sugar does the trader have now?
- A. 20
 B. 85
 C. 280
 D. 455
20. The figure shows a number on a place value chart.

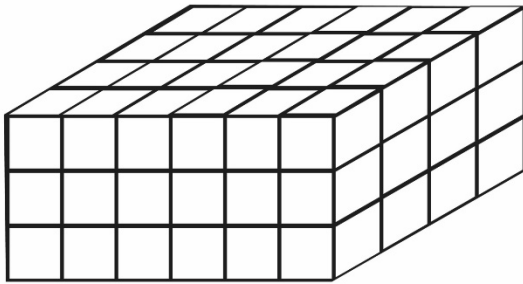
Number	4	8	.	0	5	3
Place Value Position			Decimal Place			

What is the place value of digit **5** in the number?

- A. Tenths
 B. Hundredths
 C. Ones
 D. Thousandths

Working Space

21. At a construction site, building blocks were arranged to form the stack as shown.



How many blocks are in the stack?

- A. 18
 - B. 24
 - C. 54
 - D. 72
22. Jeru visited the grandmother for 13 days. How many weeks and days did Jeru take?
- A. 1 week 3 days
 - B. 1 week 6 days
 - C. 2 weeks 0 days
 - D. 2 weeks 3 days
23. Asha started reading a story book in the morning as shown on the digital clock.

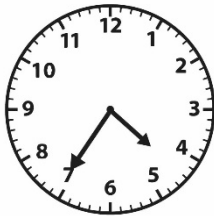


She read the storybook for $1\frac{1}{2}$ hours. What time did Asha stop reading the storybook?

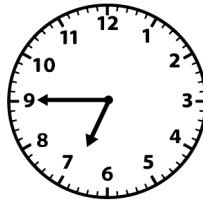
- A. 11.45 a.m
- B. 11.45 p.m
- C. 12.45 a.m
- D. 12.45 p.m

Working Space

24. The two clock faces shows the starting time and finishing time of a football match.



Starting Time



Finishing Time

How long did the football match take?

- A. 70 minutes
 - B. 120 minutes
 - C. 130 minutes
 - D. 190 minutes
25. Which one of the following lists shows money paid by the public to a county government of Kenya?
- A. Land fees, school fees, parking fee, cess
 - B. Market fees, cess, business permit, security fee
 - C. Market fees, business permit, cess, parking fee
 - D. Land fees, security fee, business permit, parking fee
26. To get to school, Musa walks straight and then turns to the left. What kind of turn does Musa make?
- A. $\frac{1}{4}$ turn
 - B. $\frac{1}{2}$ turn
 - C. $\frac{3}{4}$ turn
 - D. Full turn

Working Space

27. The following is the price list for Furaha shop.

ITEM	PRICE
A packet of milk	sh 55
A loaf of bread	sh 50
A packet of tea leaves	sh 45

Masudi bought 2 packets of milk, a loaf of bread and a packet of tea leaves. He gave the shopkeeper a sh 500 note. What was his balance?

- A. sh 350
B. sh 295
C. sh 255
D. sh 205
28. Ann has some bananas. Tom has the same number of bananas as Ann. Tesse has 3 bananas. Represent the number of bananas Ann has as x . Form an expression to show the number of bananas they have altogether.

- A. $x + x + 3$
B. $x + 3$
C. $3x + 3$
D. $3x$

29. The following are properties of some shapes.

- (i) *All angles are equal.*
(ii) *Has 4 lines of symmetry.*
(iii) *All sides are equal.*

Which shape is represented by the above properties?

- A. A right angled triangle
B. An equilateral triangle
C. A square
D. A rectangle

Working Space

30. The table represents the number of new COVID-19 cases in various counties on a certain day. The cases for Nairobi county is not shown.

County	Frequency
Nairobi	-
Nakuru	135
Garissa	17
Kwale	8
Kisii	10

The total number of COVID-19 cases on that day was 656. What was the number of cases in Nairobi county on that day?

- A. 170
- B. 386
- C. 486
- D. 1142

Working Space