

BUNGOMA COUNTY PRE - MOCK EXAMS
STANDARD 8 - YEAR 2019
MATHEMATICS

TIME: 2HRS.

READ THESE INSTRUCTIONS CAREFULLY

1. You have been given this question paper and a separate answer sheet. The question paper contains 50 questions.
2. Do any necessary rough work in this 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 only.
5. Make sure that you have written on the answer sheet.

YOUR INDEX NUMBER

YOUR NAME

NAME OF YOUR SCHOOL

6. By drawing a dark line inside the correct numbered boxes mark your full Index Number (i.e. School Code Number and the three- figure Candidate's Number) in the grid near the top of the answer sheet.
7. Do not make any marks outside the boxes.
8. Keep the sheet as clean as possible and do not fold it.
9. For each of the questions 1 - 50 four answers are given. The answers are lettered A, B, C, D. In each case only ONE of the four answers is correct. Choose the correct answer.
10. 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 Paper:

23. Wanjiku had a piece of wood measuring 32.4m. She wanted to cut it into equal lengths measuring 0.4m. How many pieces did she get?

- A. 8.1
B. 81
C. 32.6
D. 28.4

The correct answer is (B) (81)

On the answer sheet:

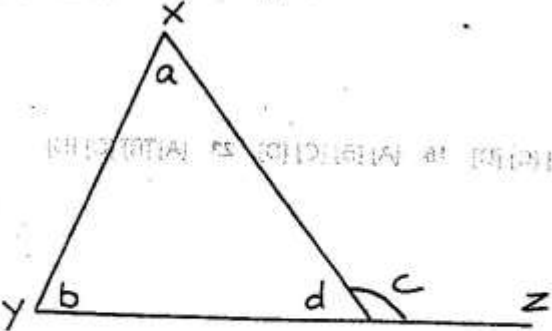
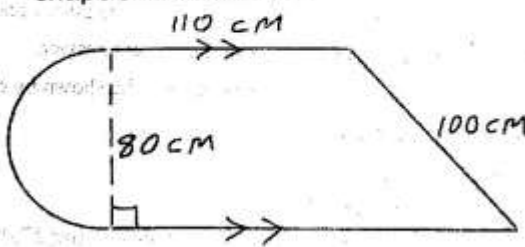
8 [A] [B] [C] [D] 12 [A] [B] [C] [D] 17 [A] [B] [C] [D] 18 [A] [B] [C] [D] 23 [A] [B] [C] [D]

In the Fifth set, the box with the letter B printed in it is marked.

11. Your dark line **MUST** be within the box.
12. For each question **ONLY ONE** box is to be marked in each set of four boxes.

This Question Paper consists of 50 Printed Questions.

TURN OVER

1. What is 399.9085 rounded off to the nearest hundredths?
 A. 400
 B. 399.91
 C. 399.905
 D. 399.9
2. What is the value of: $\frac{6^2 - 6 + 3}{3}$
 A. 5
 B. 13
 C. 31
 D. 11
3. The GCD and LCM of two numbers are 6 and 36 respectively. If one of the numbers is 18, find the other number
 A. 12
 B. 108
 C. 3
 D. 24
4. What is the place value of digit 7 in the numbers 3470268?
 A. Thousands
 B. Ten thousands
 C. Seventy thousand
 D. Hundred thousands
5. What is the value of: $\frac{0.5 + 0.2 \times 4.1 - 0.31}{0.02}$
 A. 128
 B. 60
 C. 50.5
 D. 132.65
6. Which one of the statement given below is TRUE about the triangle shown?

 A. $a + d = c$
 B. $c - b = d$
 C. $a + b = d$
 D. $c - a = b$
7. What is sh. 420 when increased in the ratio of 7:5?
 A. 300
 B. 245
 C. 588
 D. 175
8. The hire purchase price of a motorbike was sh. 84000. Koech bought it on hire purchase by paying a deposit of sh. 30 000 and the rest paid on monthly instalments of sh. 3000. How many monthly instalments did he pay for the motorbike?
 A. 10
 B. 18
 C. 28
 D. 38
9. What is $1\frac{1}{2}\%$ expressed as a ratio in its simplest form?
 A. 3:200
 B. 2:300
 C. 200:3
 D. 3:2
10. What is the area in cm^2 of a cloth cut in the shape shown below?

 A. 11 325.60
 B. 21 248
 C. 16 224
 D. 13 712
11. What is the sum of the next two numbers in the pattern 2, 5, 11, 14, 20, 23, __, __?
 A. 61
 B. 32
 C. 55
 D. 29
12. Tony sold a laptop for sh. 36 000 making a loss of sh. 4000. What was percentage loss?
 A. 10%
 B. $11\frac{1}{2}\%$
 C. $12\frac{1}{2}\%$
 D. 90%
13. On a map the length of a river which is 96km long is represented by a length of 4.8cm. What is the scale used?
 A. 1:20 000
 B. 1:2 000 000
 C. 1:2 000
 D. 1:200 000

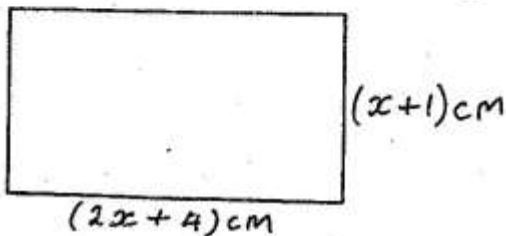
14. Atieno ate 0.7 of a cake. He gave his sister 0.2 of the remainder and kept the rest. What percentage of the cake did he keep?

- A. 50% B. 24%
C. 76% D. 94%

15. Which one of the following expressions is the simplest form of $x + 3(x + 2y) - 2y + 2y$?

- A. $\frac{2x + 4y}{x}$
B. $\frac{3 + 4y}{x}$
C. $\frac{2x + 8y}{x}$
D. $x + 8y$

16. The perimeter of the given figure drawn below is 58cm. Find the area of the figure?



- A. 737 cm² B. 279 ⁵/₉ cm²
C. 180 cm² D. 29

17. What is the area of a square garden whose perimeter is 116 metres?

- A. 29 m² B. 841 m²
C. 58 m² D. 3364 m²

18. The ratio of the side 3 51 a rectangle is 2:5. The shorter side is 8 cm. If both sides are increased by 10% what is the area of the rectangle formed?

- A. 12906 cm² B. 176 cm²
C. 160 cm² D. 193.6 cm²

19. The area of a trapezium is 246 cm². The lengths of the two parallel sides are 16 cm and 25 cm respectively. What is the height of the trapezium?

- A. 3cm B. 6cm
C. 12cm D. 9cm

20. Draw triangle EFG such that side EF=7.5cm, angle GEF=70° and angle EFG = 80°

Construct perpendicular bisectors of lines GE and GF to meet at K. Mark the points of intersection of line GE and its bisector as M and the point of intersection of line GF and its bisector as N. What is the measure of line KN?

- A. 3.8 cm
B. 3.3 cm
C. 2.5 cm
D. 1.2 cm

21. The area of a right angled triangle plot is 120m². The length of the shortest side is 10m. What is the length of the longest side?

- A. 24 B. 12
C. 26 D. 34

22. How many faces, vertices and edges does a triangular prism have?

F	V	E
A. 4	4	6
B. 6	8	12
C. 5	5	8
D. 5	6	9

23. What is the value of: $\frac{2m^2 + 2p}{m+n}$

Given that: $m = 3, n = 2m$ and $p = n + 1$

- A. 3 ⁵/₉ B. 3 ¹/₃
C. 2 ⁴/₉ D. 2 ¹/₂

24. Which one of the quadrilaterals named below has the following properties?

- i) Opposite sides are equal
- ii) Its diagonals are equal
- iii) Diagonals bisect each other
- iv) It has two pairs of parallel lines

- A. Rhombus
- B. Rectangle
- C. Parallelogram
- D. Trapezium

25. Zeina had 1150. She used the money to buy following items from a shop.

2 1/2 kg of rice @sh. 100

2 kg of fat @ sh. 50

2 kg of sugar for sh. 200

If she gave shopkeeper a sh. 1000

If she gave the shopkeeper a sh. 1000 note

how much money did she remain with altogether?

- A. Sh. 200
- B. Sh 250
- C. Sh. 600
- D. Sh 750

26.

$$\sqrt{2\frac{1}{4} + 2\frac{7}{9}}$$

- A. 9/25
- B. 9/10
- C. 3/5
- D. 1 1/5

27.
$$\frac{2\frac{1}{8} + \frac{1}{4}(1\frac{3}{5} - \frac{7}{9})}{3\frac{1}{8} \times \frac{3}{4} + \frac{3}{5}}$$

- A. 51/200
- B. 9/5
- C. 1 11/25
- D. 19/100

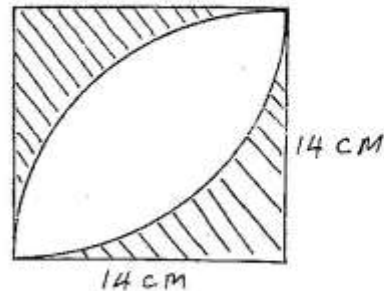
28. A bus left Mombasa on Wednesday at 1945 hrs and took 20 hours 35 minutes to reach Kampala. When did the bus reach its destination?

- A. Wednesday 4. 20 a.m
- B. Thursday 4. 20 p.m
- C. Thursday 4.20 am
- D. Friday 4.20 p.m

29. 54 cylindrical tins were packed in a rectangular box standing. The diameter of tins was 0.9 cm and height 1.1 cm. If the base of the box is 8.1 cm by 2.7 cm. What is the height of the box?

- A. 3 cm
- B. 2.2 cm
- C. 3.3 cm
- D. 2 cm

30. Find the area of the shaded region



- A. 84 cm²
- B. 56 cm²
- C. 5600 cm²
- D. 84000 cm²

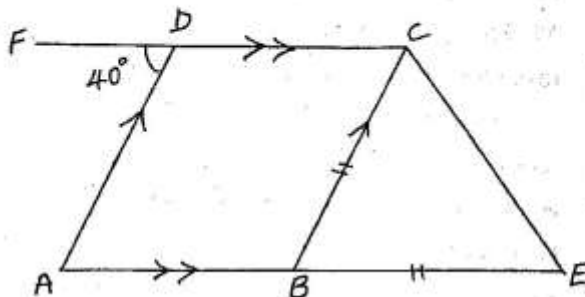
31. Jerry deposited sh. 25000 in a bank which paid a compound interest at the rate of 5% pa. How much did he withdraw after 2 years?

- A. 1312.50
- B. 2500
- C. 26250
- D. 27562.50

32. In a school 3/5 of the pupils are girls. On a day when 3/20 of the girls were absent, 255 girls were present. How many boys are in the school?

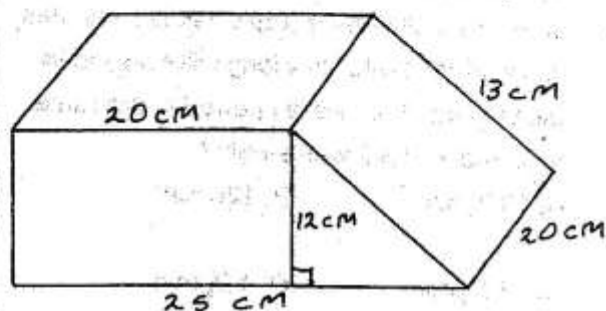
- A. 300
- B. 180
- C. 200
- D. 500

33. The figure below shows a parallelogram ABCD and a triangle BCE, ABE and FDC are straight lines. Angle ADF = 40° and BC = BE. What is the size of the DCE?



- A. 140° B. 110°
 C. 70° D. 120°
34. Fourteen workers can dig a shamba in 12 days. How many more days would 8 workers take to dig the shamba?
 A. 21 B. 10
 C. 7 D. 9
35. A closed cylindrical container of height 15 cm has a capacity of 9.24 litres. What is the total surface area of the container (take π as $\frac{22}{7}$)
 A. 1936 cm^2 B. 1386 cm^2
 C. 616 cm^2 D. 2552 cm^2
36. Construct a parallelogram ABCD whose sided measure 8 cm by 5 cm. Angle BCD is 125° . Draw the diagonals to meet at point X. What is the measure of angle AXB?
 A. 117° B. 55°
 C. 60° D. 81°
37. A city clock losses 5 seconds every two hours. The clock was set correct on Friday at 12.05 pm. What time was the clock showing on the following Friday at 12.05 pm?
 A. 11. 58 pm B. 11.51 pm
 C. 11.58 am D. 11. 51 am

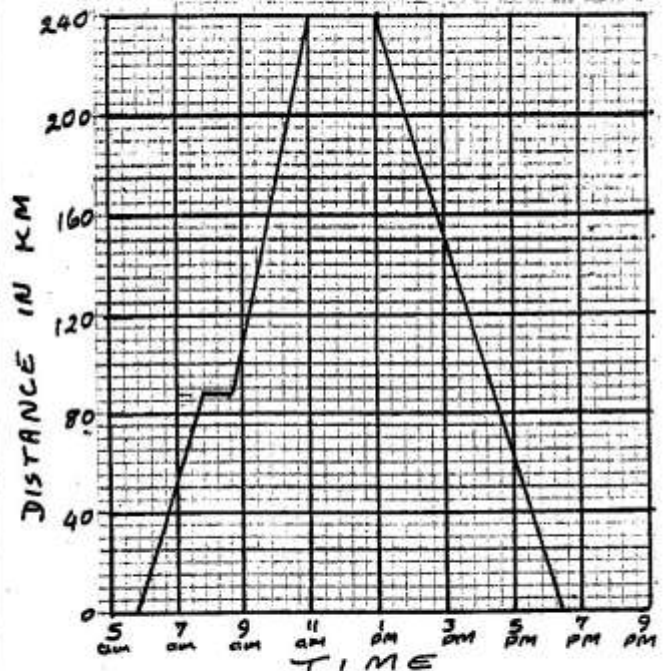
38. Mercy is now five times as old her son. In six years time she will be three as old as her son. If her son is x year old now. Which one of the following equations represents their ages in six year time?
 A. $5x + 6 = 3x - 8$
 B. $5x + 6 = 3x + 16$
 C. $5x + 6 = 3x + 18$
 D. $5x + 6 = 3x + 12$
39. A bus company dispatches its buses from Nairobi to various destinations at intervals of 3h, 4h, 6h and 8 hours respectively. The company dispatched its buses together on Monday at 9.30am. When did the company dispatch its buses together again?
 A. Monday 2130h
 B. Tuesday 0930h
 C. Tuesday 2130h
 D. Wednesday 0930h
40. Calculate the total surface area of the prism.



- A. 2770 cm^2 C. 1430 cm^2
 B. 1370 cm^2 D. 1940 cm^2
41. The price of a dress was reduced by 800. If this represents 20% what is the price after reduction?
 A. 4000
 B. 1000
 C. 3200
 D. 640

42. A wheel covers a distance of 0.22 km after making 100 revolutions. What is the radius of the wheel?
- A. 35cm B. 70cm
C. 35m D. 70m
43. A ladder was placed 30m away from the base of the wall. If the length of the ladder is 50M, find the height of the wall in centimetres?
- A. 40cm B. 4000cm
C. 400cm D. 4cm
44. Construct triangle ABC in which AB = 5.5cm, BC = 8cm and angle ABC = 90°. Draw a circle whose circumference will touch lines AB, BC and AC, what is the radius of the circle?
- A. 1.9cm B. 2.5cm
C. 1.5cm D. 2.8cm
45. Tap A takes 12 minutes to fill a tank with water while, Tap B takes 8 minutes to fill the same tank with water. Tap C takes 5 minutes to empty the tank. How long will it take to fill the tank if all taps were opened at the same time and the tank was empty?
- A. 13 $\frac{1}{3}$ min B. 120min
C. 2 $\frac{22}{49}$ min D. 4 $\frac{1}{5}$ min
46. The volume of a cylindrical tank is 34 650cm³. Calculate the radius of the cylinder if its height is 25cm
- A. 28cm B. 14cm
C. 42cm D. 21cm
47. Find the value of x in
- $$\frac{2x + 3}{3} - \frac{2x}{5} = 3$$
- A. 3 $\frac{3}{4}$ B. 5 $\frac{1}{2}$
C. 7 $\frac{1}{2}$ D. 4 $\frac{3}{4}$

48. The distance between towns S and T is 150km. Onyango drove from S starting at 9.30am and reached town T at 11.00am. He completed his business in town T at 12.50pm and started driving back to town S reaching there at 2.30pm. What was Onyango's average speed for the whole journey?
- A. 90km/hr B. 60km/hr
C. 100km/hr D. 50km/hr
49. What is the difference between the mean and the sum of the mode and median of the following numbers?
23, 27, 28, 22, 31, 20, 23, 25, 40, 33, 36?
- A. 32 B. 21
C. 22 D. 24
50. The graph below shows a Journey by bus from town A to town Y and back



- What was the average speed of the bus for the whole journey?
- A. 38.40 km/h
B. 19.20 km/h
C. 50.53 km/h
D. 40.00 km/h