

---

# COUNTY MOCK EXAMS-STD 8 2016

## MATHEMATICS PAPER

Coordinated by KENPRO,  
Macjo Arcade, 4th Floor, Suite 15E,  
Off Magadi Road, Ongata Rongai |Tel: +254202319748 |  
E-mail:infosnkenya@gmail.com | Website:[www.schoolsnetkenya.com](http://www.schoolsnetkenya.com)

# MAKUENI COUNTY MOCK EXAMS

## STANDARD EIGHT - YEAR 2016

### MATHEMATICS

Time : 2 Hours

#### READ THESE INSTRUCTIONS CAREFULLY

1. You have been given this question booklet and a separate answer sheet. The question booklet contains 50 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 only an ordinary pencil
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 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 Booklet

24. Work out  $4 + 3 - 3$   
A. 18  
B. 36  
C. 19  
D. 21

The correct answer is C

On the answer sheet:

18. [A] [B] [C] [D] 19. [A] [B] [C] [D] 20. [A] [B] [C] [D] 21 [A] [B] [C] [D]

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 comprise of 4 printed pages

Candidates should check the question paper to ensure that all the pages are printed and no questions are missing.

Compiled by Schools Net Kenya

Available online at [www.schoolsnetkenya.com](http://www.schoolsnetkenya.com) | E-mail: [infosnkenya@gmail.com](mailto:infosnkenya@gmail.com) | Mobile: 07 11 88 22 27

1. Which one of the following is 8070042.8 in words?  
 A. Eight million seven thousand and forty two point eight  
 B. Eight hundred and seven thousand and forty two and eight tenths  
 C. Eight million seventy thousand and forty two and eight tenths  
 D. Eight million and seven thousand and forty two and eight tenths

2. What is the value of  $12(39 - 18) + 3 \times 4$   
 A. 21    B. 34    C. 8    D. 22

3. Abel spent  $\frac{1}{4}$  of his salary on food,  $\frac{1}{2}$  of the remainder on rent. He then spend  $\frac{1}{3}$  of what was left on transport. If he finally had sh. 10, 000, what was his monthly salary?  
 A. Sh. 40, 000    B. Sh. 20, 000  
 C. Sh. 80, 000    D. Sh. 25, 000

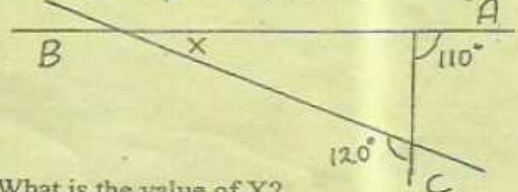
4. What is the value of:-  
 $0.3 \times 0.94 + (0.304 \div 0.123 \div 0.4)$   
 A. 1.3495    B. 1.7725  
 C. 0.8935    D. 0.60225

5. What is the total value of digit 5 in:-  
 $7324 \times 62$ ?  
 A. 10, 000    B. Fifty thousands  
 C. 5000    D. Ten thousands

6. Kasuki contested for a seat in his county. If he got 0.893 of the total votes, what percentage of the votes did he get??  
 A. 8.93%    B. 89.3%  
 C. 0.00893%    D. 893%

7. What is the sum of the next two numbers in the pattern 0, 1, 1, 2, 3, 5, \_\_\_\_\_, \_\_\_\_\_  
 A. 8    B. 7    C. 21    D. 13

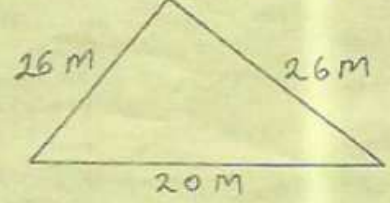
8. The diagram below shows three lines which intersect to form triangle ABC



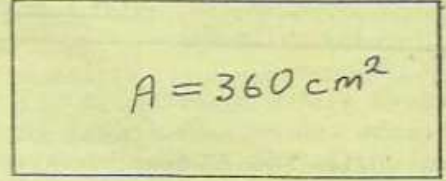
- What is the value of X?  
 A.  $50^\circ$     B.  $60^\circ$     C.  $70^\circ$     D.  $130^\circ$

9. In a section of River Kaluku, 8 km long is represented on a map by a length of 25 cm. What is the scale used on ration form?  
 A. 1 : 32    B. 1 : 320  
 C. 1 : 3200    D. 1 : 32000

10. The diagram below represents a flower garden



- What is the area of the flower garden in  $m^2$   
 A. 260    B. 240    C. 72    D. 480
11. What is the value of x in the equation?  
 $\frac{2(x+1)}{3} - 4 = 6$   
 A. 14    B. 10    C. 8    D. 4
12. The area of the rectangle below is  $360 m^2$ . Its width is 18 cm. Find the perimeter



- A.  $76 cm^2$     B. 20 cm  
 C. 38 cm    D.  $76 cm$
13. Mutongolo purchased the following items from a shop  
 1  $\frac{1}{2}$  kg of soap at sh. 85 per kilo  
 2 bars of soap for sh. 112  
 1kg of fat @ sh. 123 per kilo  
 If he gave the shopkeeper a five hundred shilling note, what was his balance?  
 A. Sh. 362.50    B. Sh. 137...50  
 C. Sh. 474.50    D. Sh. 25.50

14. What is the value of?  
 $(4\frac{1}{2} - 2\frac{1}{4} + 1\frac{1}{2} \div \frac{3}{2}) \div 2$   
 A.  $2\frac{1}{4}$     B.  $1\frac{1}{4}$   
 C.  $3\frac{1}{4}$     D.  $1\frac{3}{8}$

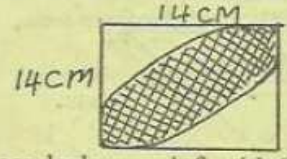
15. What is the difference of LCM and GCD of 36, 48, 60  
 A. 720    B. 12    C. 708    D. 732
16. The volume of a cylinder is  $2310 cm^3$ . If the height is 15 cm, find the diameter of the cylinder  
 A. 7cm    B. 28 cm    C. 14 cm    D. 49 cm
17. Which quadrilateral has all properties listed below?

- All sides are equal
  - diagonals intersect at 900
  - diagonals are not equal
  - Opposite sides are equal and parallel
- A. Square    B. Parallelogram  
 C. Rectangle    D. Rhombus

18. Which of the following expression is the simplest form of:  $\frac{3(p+r) + 2(p-q)}{2(p+q) + 2q}$   
 A. 5    B.  $\frac{5p+5q}{2p+4q}$   
 C.  $\frac{5p+q}{2q}$     D.  $\frac{5p+q}{2p+4q}$

19. Construct triangle PQR whose angle  $PQR = 70^\circ$ , line  $PQ = 6 cm$  and line  $QR = 5 cm$ . What is the measure of line PR?  
 A. 6.4 cm    B. 6.8 cm  
 C. 5.4 cm    D. 6 cm

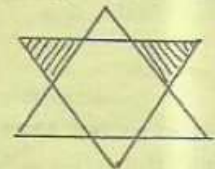
20. The average mass of 40 pupils in father Adriano Memorial School was 35 kg. If the mass of their English teacher is added, the mean mass goes up by 3 kg. What is the mass of their English teacher in kg?  
 A. 158 kg                      B. 105 kg  
 C. 120 kg                      D. 58 kg
21. Venus deposited Sh. 8400 in a bank which gave interest at the rate of 10% per annum. If the money stayed in the bank for seven months, what was the total amount that she collected at the end of the period?  
 A. Sh. 8, 890                      B. Sh. 490  
 C. Sh. 5580                      D. Sh. 13980
22. Juma's table mat has a square as shown below. Find the total area shaded



- A. 56 cm<sup>2</sup>  
 B. 89cm<sup>2</sup>  
 C. 112 cm<sup>2</sup>  
 D. 154 m<sup>2</sup>

23. A car dealer was left with Sh. 855000 after paying out a 5% commission to an agent for the sale of a car. What was the selling price of the car?  
 A. Sh. 17, 100, 000                      B. Sh. 900, 000  
 C. Sh. 897, 750                      D. Sh. 812, 250
24. The maximum point of the thermometer is 100°C and the minimum point is -35°C. What is the difference between those points?  
 A. 65°C                      B. 16°C  
 C. 135°C                      D. 125°C
25. James ran a distance of 3 km at a speed of 2m/s. At what time will he finish the race if he started it at 7.15 a.m  
 A. 7.25 a.m                      B. 7.40 a.m  
 C. 7.30 a.m                      D. 7.45 a.m

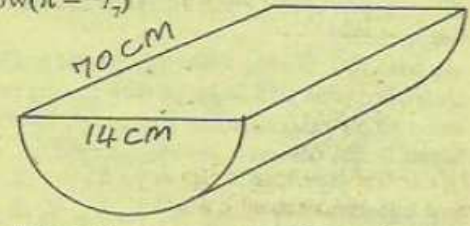
26. What fraction of the figure below is shaded?



- A.  $\frac{1}{12}$     B.  $\frac{1}{6}$                       C.  $\frac{2}{7}$                       D.  $\frac{2}{5}$

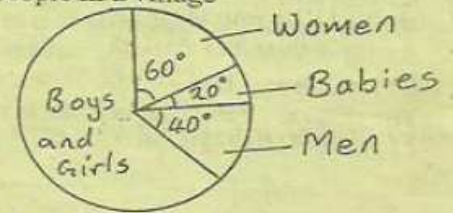
27. A cylinder tank of diameter 1.4 and a height of 1.6 m is  $\frac{3}{4}$  full of water. How many more litres are needed to fill it? (Take  $\pi = \frac{22}{7}$ )  
 A. 2464L                      B. 1846L  
 C. 1760 L                      D. 616 L
28. Cyril, Daniel and Julius shared sweets as follows, Cyril got 2 sweets more than Julius and Danile got 5 sweets more than Julius and Cyril. If all sweets were 33, how many sweets did Daniel get?  
 A. 6    B. 8                      C. 19                      D. 24
29. Alex can do a piece of work in 36 days while Kyalo can do the same work in 45 days. How long will both Alex and Kyalo take to do the same work together?

- A. 15    B. 35                      C. 400                      D. 20
30. Construct an equilateral triangle ABC of length 6 cm. Draw a circle touching the three points A, B, C. What is the diameter?  
 A. 7.0 cm                      B. 3.5 cm  
 C. 8.4 cm                      D. 4.2 cm
31. John bought a radio cassette on hire purchase terms. He paid a deposit of Sh. 5000 and thereafter 15 monthly installments of sh. 1200 each. If the total amounts he paid was Sh. 3000 more than the cash price, what was the cash price of the cassette?  
 A. Sh. 20, 000                      B. Sh. 23, 000  
 C. Sh. 26, 000                      D. Sh. 18, 000
32. Find the surface area of the half cylindrical solid below ( $\pi = \frac{22}{7}$ )



- A. 1694cm<sup>2</sup>                      B. 2674cm<sup>2</sup>  
 C. 3388cm<sup>2</sup>                      D. 3080 cm<sup>2</sup>

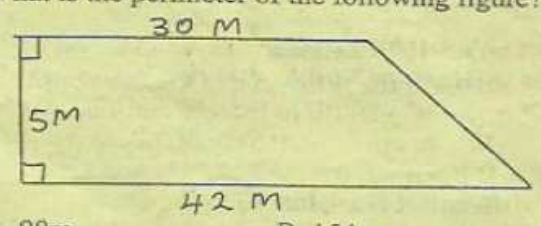
33. During a sale in a boutique shop, Jacob bought a shirt that costs Sh. 9500 at 15 discount. How much money did he pay for the shirts?  
 A. Sh. 9500                      B. Sh. 1450  
 C. Sh. 1425                      D. Sh. 8075
34. The pie chart below represents the population of 12000 people in a village



How many more boys and girls than women are there in the village?

- A. 200    B. 600                      C. 800                      D. 120

35. What is the perimeter of the following figure?



- A. 90m                      B. 154 m  
 C. 180 m                      D. 77 m

36. Felistus bought 120 skirts for Sh. 42 000. At what price per skirt must she sell to get a 40% profit?  
 A. Sh. 490                      B. Sh. 390  
 C. Sh. 210                      D. Sh. 58800
37. Decrease 45 bags of beans in the ratio 2:5  
 A. 18 bags                      B. 20 bags  
 C. 16 bags                      D. 25 bags

38.

C				
50	D			
80	40	E		
120	60	34	F	
200	120	74	60	G
290	240	150	80	60
H				

Juma and his wife travelled with their two children from town C to G via E. How much did they pay altogether?

- A. Sh. 300 B. Sh. 462 C. Sh. 616 D. Sh. 800

39. A trader sold 168 bags of rice in one month. If the second month the sales increased in the ratio 5:4, what is the increase in the second month?

- A. 42 B. 126 C. 134.4 D. 210

40. Arrange the fractions  $\frac{4}{9}, \frac{5}{7}, \frac{2}{3}, \frac{3}{8}$  in descending order

- A.  $\frac{5}{7}, \frac{2}{3}, \frac{4}{9}, \frac{3}{8}$  B.  $\frac{5}{7}, \frac{4}{9}, \frac{2}{3}, \frac{3}{8}$   
 C.  $\frac{3}{8}, \frac{2}{3}, \frac{4}{9}, \frac{3}{7}$  D.  $\frac{3}{8}, \frac{4}{9}, \frac{2}{3}, \frac{5}{7}$

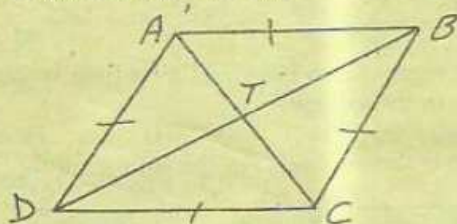
41. Tony slept at Sh. 2230 hrs. He woke up  $8\frac{1}{2}$  hrs later. At what time did he wake up?

- A. 7.00 p.m B. 3100 hrs  
 C. 7.00 a.m D. 8.30 a.m

42. Which one of the following is true?

- A. 3dl < 2 ml B. 1 are = 100 ha  
 C. 1 m<sup>3</sup> > 100 L D. 3L > 2000 cm<sup>3</sup>

43. The diagram below represents a rhombus AC = 12 cm and BD = 16 cm



What is the perimeter of the rhombus?

- A. 48 cm B. 64 cm  
 C. 40 cm D. 32 cm

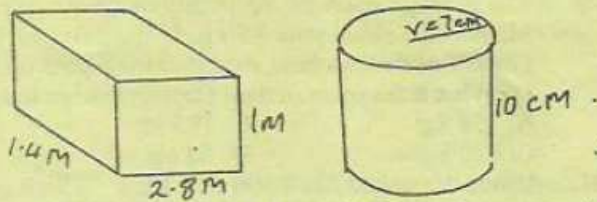
44. If  $P = q - 2, q = r + 3, r = 3s$  and  $s = 2$  What is the value of  $p - \frac{2}{3}q + \frac{1}{2}r$

- A. 6 B. 4 C. 5 D. 3

45. Tap A takes 2 mins to fill tank. Tap B empties the same tank within p mins. If both taps takes  $2\frac{2}{3}$  mins to fill the tank, how many minutes does tap B take to empty the tank?

- A. 3 mins B. 8 mins  
 C. 4 mins D. 1 min

46. The diagram below shows a box that was used to pack cylindrical tins as shown



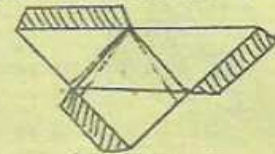
How many tins can be packed in the box at standing position?

- A. 2000 B. 200 C. 100 D. 80

47. The mass of 7 girls in a class were as follows 39kgs, 48 kgs, 41kgs, 47 kgs, 43 kgs, 41kgs and 42 kgs. Find the sum of the mode and mean

- A. 85 B. 84 C. 43 D. 83

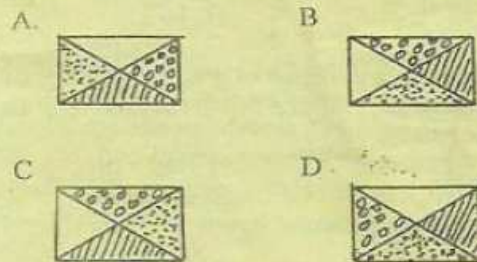
48. The figure below shows a net



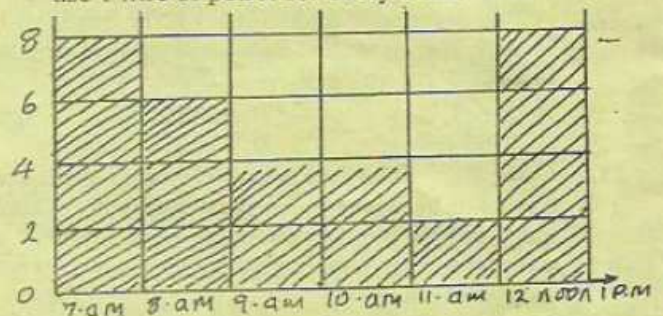
Which one of the following solids can be formed from this net?

- A. Square prism B. Triangular prism  
 C. Square pyramid D. Triangular pyramid

49. What is the next shape?



50. The graph below shows the amount of petrol consumed by a vehicle at given times The vehicle use 1 litre of petrol for every 8 kilometres



How many kilometres did it cover from 7 am to 12 noon?

- A. 136 km B. 40 km  
 C. 120 km D. 48 km