# COUNTY MOCK EXAMS-STD 8 2016

## **MATHEMATICS PAPER**

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# SIAYA COUNTY MOCK STANDARD EIGHT-YEAR 2016

### MATHEMATICS

#### READ THESE INSTRUCTIONS CAREFULLY

Time: 2 hours

- 1. You have been given this question booklet and a separate answer sheet. The question booklet contains 50 questions.
- Do any necessary rough work in this booklet.
- When you have choosen 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.
- Make sure that you have written on the answer sheet.

YOUR INDEX NUMBER YOUR NAME NAME OF YOUR SCHOOL

- By drawing a line on the correct numbered ellipses (small oval shapes) mark your full Index Number (i.e School Code Number and three-figure Candidate's Number) in the grid near the top of the answer sheet.
- Do not make any marks outside the ellipses.
- 8. Keep the sheet as clean as possible and do not fold it.
- 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.
- On the answer sheet show the correct answer by drawing a line on the ellipse in which the letter you have chosen is written.

#### Example

- 15. John covered a distance of 36km within half an hour. What was his speed in m/s?
  - A. 18
  - B. 5
  - C. 20
  - D. 72

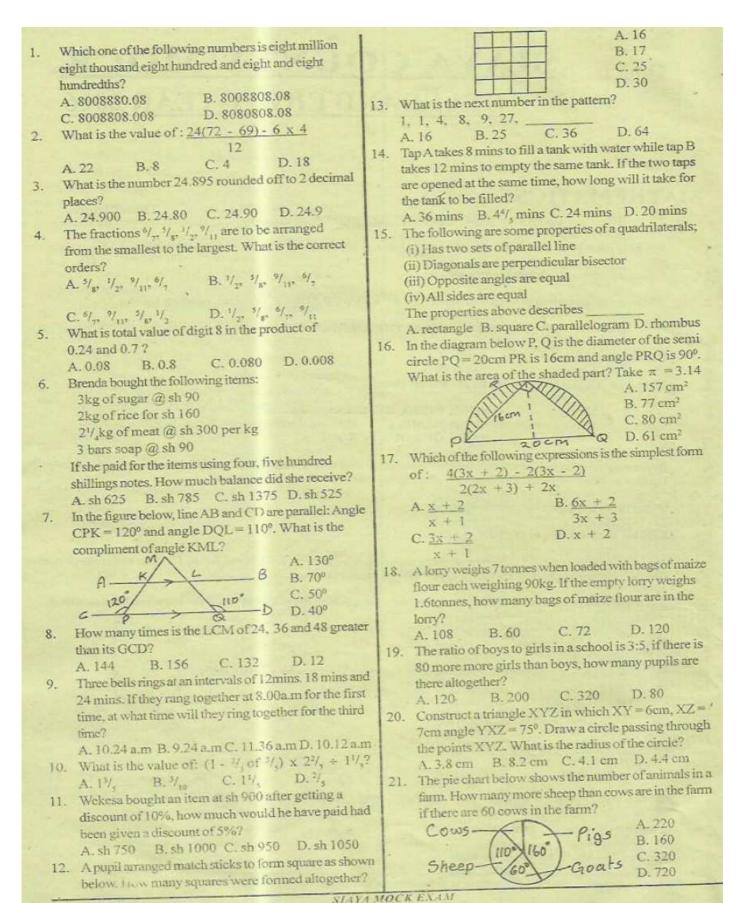
The correct answer is C (20) On the answer sheet:

12. [A] [B] [C] [D] 13. [A] [B] [C] [D] 14. [A] [B] [C] [D] 15. [A] [B] [C] [D]

In the first set, a line is drawn within the letter C

- 11. Your dark line MUST be within the letter.
- 12. For each question, ONLY ONE ellipse is to be drawn a line in each set of four ellipses.

TURN OVER



22. A watch gains 5 seconds in every hour, if it was set right at 8.00 a.m on Monday, what time will it show on Friday at 8.00 p.m?

A. 8.16 p.m B. 8.12 p.m C. 8.09 p.m D. 8.24 p.m

23. What is the possible value of x in the given inequality? 3x - 2 < 6x - 8

B. 3

C. I

24. The figure below shows a triangular prism. What is its surface area?



A. 756 cm<sup>2</sup> B. 648 cm<sup>2</sup> C. 1944 cm<sup>2</sup>

D. 972 cm2

- 25. On a map whose scale is 1:5000 a piece of land is represented by a rectangle measuring 5cm by 4cm. What is the actual size of this land in hectares? D. 150 A.5 ha B. 50 C. 500
- 26. Kamau deposited sh 10,000 in a certain financial institution which paid simple interest per annum. After 2 years, the total amount of money was sh 11,600. At what rate percent did the money earn interest? B. 16% C. 4% D. 8%
- 27. Which one of the following sets of measurements will form a right angled triangle when drawn? A. 7cm, 24cm, 26 cm B. 5cm, 24 cm, 25 cm C. 6cm, 8 cm, 12 cm D. 8cm, 15cm, 17cm
- 28. A company employed 24 workers to complete a piece of work in 15 days, how many more days did it take them to complete the work if 6 workers did not turn

A. 5 days B. 20 days C. 4 days D. 9 days 29. The table below shows the number of litres of milk

sold in one	week	by Wa	ngwe.				
Days of Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
No. of Ltr	20	24		18	22	23	21

The mean of milk sold in 7 days of a week was 22. How many litres of milk were sold on Wednesday?

B. 22

C. 26

D. 28

30. A water tank is 1/, full of water, after drawing 30 litres of water from the tank it becomes 1/2, full. How many litres of water does it hold when a third full?

A. 90 L

B. 150'L C. 75 L

D. 225 L

31. Benson deposited sh 60,000 in a bank which paid compound interest at there rate of 10% p.a, but after one year, he withdrew sh. 26,000 from the account. How much was in the accunt at the end of second year?

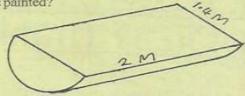
A. sh 66,000

B. sh 72,600

C. sh 40,000

D. sh 44,000

32. The diagram below is a water rough 2m long with the semi-circular cross section of diamter 1.4m. The external surface of a trough was painted. What area was painted?



A. 11.88 m<sup>2</sup> B. 5.94 m<sup>2</sup> C. 8.74 m<sup>2</sup> D. 5.17 m<sup>2</sup> 33. A sales lady earns a basic salary of 3500/= she is also paid a commission of 5% on goods above 20,000. In

a one month she earned a total of 6500. What was ther monthly sale?

A. sh 60000

B. sh 30 000

C. sh 80 000

D. sh 100 000

34. The charges for sending a telegram were 8/= for the first 10 words or less. Each extra word is charged 80 cents. A tax of 15% of the total is also charged and payment rounded off to the nearest 5 cents. How much did Nekesa pay to send the following telegram? MARTIN NYONGESA BOX 147 KITALE COME HOME MOTHER SICK ADMITTED BUNGOMA GENERAL HOSPITAL NEKESA

A. sh 13.80 B. sh 13.85 C. sh 13.00 D. sh 14.00

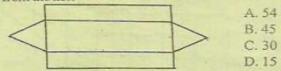
- 35. What is the value of 621/, % expressed as a ratio? A. 5:4 B. 5:8 C. 8:5 D. 125:2
- 36. Walubengo spend 1/, of his money on rent, 2/, of the remainder on food, 1/2 of the remainder on clothes and saves the rest. if his savings is sh 1575. How much does he earn?

A. sh 60 000

B. sh 7200

C. sh 1800 D. sh 15000

37. The figure below shows a net of a solid, what is the product of the edges and vertices on the solid formed from the net?



38. Construct a paralleligram PQRS in which PQ = 7cm QR = 6cm and angle SPQ = 120°. Measure the diagonal QS.

A. 11.5 cm B. 6.4 cm C. 11.2 cm D. 6.6 cm

39. The marked price of a T.V set is sh 50,000. The hire purchase price is 20% more than the marked price. Peter bought it on hire purchase by paying a deposit and 10 monthly instalments of 3000/=each. How much was his deposit?

A. sh 60,000

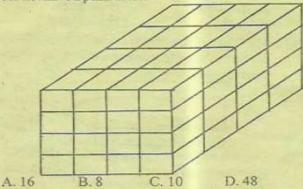
B. sh 10,000

C. sh 110,000

D. sh 30,000

- 40. What is the value of:  $6.2 0.8 \div 0.25 + 2.4$ 0.6 x 0.1
  - 0.6 x
  - A:5.4 B. 0.9 C. 9 D. 90
- 41. A son is x years old now. His father is 5 times as old as his son. What will be the sum of their ages in 10 years time?
  - A.6x + 10
- B.10x + 6
- C.2(3x + 10)
- D.6x + 15
- 42. In the year 2004, Jan 10th was on Monday. When was June 10th the same year?
  - A. Saturday
- B. Friday
- C. Thursday
- D. Monday
- 43. Electricity was installed from Malakisi to Chwele a distance of 15km. Electricity poles were placed 50m apart. How many poles were used?
  - A. 300
- B. 301 ·
- C. 600
- D. 602
- 44. A shopkeeper bought 4 trays of eggs for sh 1000, twenty eggs broke during transportation and sold the remaining eggs at a profit of 20%, if a tray holds 30 eggs. What was the selling price of each egg?

  . sh 9 B. sh 8 C. sh 10 D. sh 12
- 45. John started his journey from Mombasa to Busia. After 5h 45 mins drive he rested in Nairobi for 55 minutes, it then took him 2hr 40 min to arrive in Busia at 9.25 p.m. At what time had he started the
- iourney?
  - A. 12.05 a.m
- B. 5.50 p.m
- C. 6.45 p.m
- D. 12.05 p.m
- 46. The figure below represents a stack of cubes. The surface of the stack was painted. How many cubes did not have a paint at all?



- 47. What is the area of a rhombus whose diagonals are 24cm and 32 cm?
  - A. 768 cm<sup>2</sup> B. 112cm<sup>2</sup> C. 384cm<sup>2</sup> D. 80 cm<sup>2</sup>
- 48. A meeting was attended by men, women and children. 0.4 of those who attended were men, 0.25 were women and the rest were children. If the number of men who attended were 80, how many more children than women attended the meeting?
  - A. 200
- B. 70
- C. 20
- D. 50

49. The figures below represent a pattern.







Which one of the following is the next shape?









The graph below shows a journey by bus from town K to town P.

