
COUNTY MOCK EXAMS-STD 8 2016

ENGLISH PAPER

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KIRINYAGA 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.
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 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.
 7. Do not make any marks outside the ellipses.
 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 show the correct answer by drawing a line on the ellipse in which the letter you have chosen is written.

Example

14. What is the total value of digit 0 in (4501956)
- A. 0
 - B. 10000
 - C. Tens of thousands
 - D. 500 000

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

1. What is the place value of digit 6 in the number 32.8763?

- A. Hundredths B. Thousandths
C. Tenths D. Tens of thousands

2. Work out: $549 - 243 - 27$

- A. 540 B. $34\frac{2}{3}$ C. $10\frac{1}{3}$ D. 20

3. Find the next number:

- 3, 7, 16, 32, _____
A. 43 B. 63 C. 68 D. 57

4. The mean mass of three boys is 35kg. If the mass of their teacher is added, the mean becomes 42kg. Find the mass of their teacher?

- A. 77 kg B. 50 kg C. 63 kg D. 56 kg

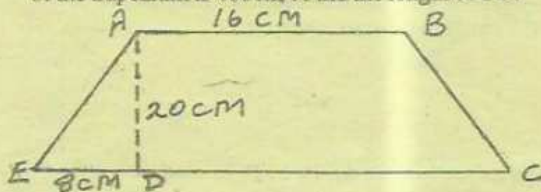
5. Find the value of x

- $\frac{3(x + 3)}{3} - \frac{3x}{4} = 5$
A. 5 B. 8 C. 21 D. 12

6. Ken bought a radio for shs, 810 after getting a discount of 10%. What was the marked price of the radio?

- A. shs 891 B. sh 729
C. shs 81 D. shs 900

7. The diagram below represents a trapezium. The area of the trapezium is 480cm^2 . Find the length of CD.

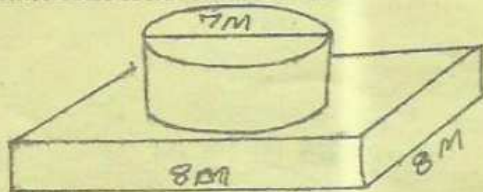


- A. 48cm B. 32 cm C. 40 cm D. 24 cm

8. A rectangular water tank whose base is 1.5m by 0.5m is to be filled with water using 50 litre container. How many such containers will be required to fill the tank if the tank is 1m high

- A. 15 B. 1.5 C. 150 D. 1500

9. A circular water tank of diameter 7 rests on a square concrete slab of side 8m as shown.



Calculate the area of the slab that is NOT occupied by the base of the tank (pic = $\frac{22}{7}$)

- A. 25.5 m^2 B. 64m^2 C. 38.5 m^2 D. 27.5 m^2

10. The level of water in a tank decreased by 20% and later increased by 20%. If the original level of water was 250cm, what was the new level after the increase?

- A. 240 m B. 200 cm C. 288 cm D. 250 cm

11. A saleslady earns salary of shs 8500. She is also paid a commission of $2\frac{1}{2}\%$ on all the value of goods sold above shs 50,000. How much did she earn in a month she sold goods worth shs 250,000?

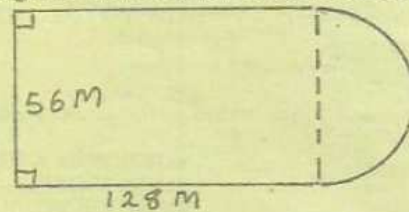
- A. shs 5000 B. shs 9750
C. shs 13500 D. shs 6250

12. Find the value of P in:

$$2(3p + 1) + 3(p + 2) = 26$$

- A. 3 B. 2 C. 6 D. 11

13. The figure below represents Amaka's plot. The plot is fenced using four strands of wire. Calculate the total length of wire used to fence the land completely?

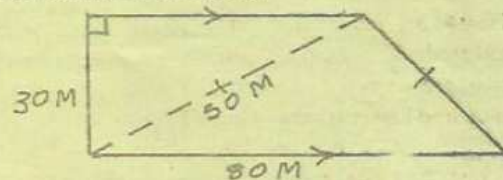


- A. 400 m B. 1600 m C. 456 m D. 182 m

14. Section of road measuring 18kg was represented by a length of 12m on map. What was the scale used?

- A. 1:1500 B. 1:15000
C. 1:150000 D. 1:1500000

15. Chris ran round the following field ten times. What distance in km did he cover?



- A. 1.9km B. 1.8 km C. 2km D. 22km

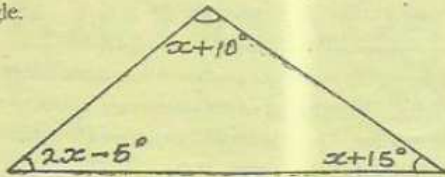
16. Carol bought the following items

- $1\frac{1}{2}$ kg of maize flour for shs 44
2kg of rice @ shs. 78
2bars of soap @ shs 26
What balance did she receive, if she paid with five-two hundred notes?

- A. shs 748 B. shs 353 C. shs 648 D. shs 452

17. Three brothers shared their piece of land as follows: Luke got $\frac{1}{4}$ of the land, mark got $\frac{1}{2}$ while Ali got 1.5ha. What was the size of the land before it was shared?

18. Find the difference between the largest and smallest angle.

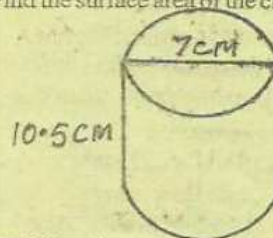


- A. 75° B. 50° C. 25° D. 55°
19. A nissan takes 3hrs to cover a certin distance at a speed of 72km/hr. How long will toyota take to cover the same distnbce at a speed of 96km/hr?
A. 5 1/4 hrs B. 2 1/4 hrs C. 1 1/2 hrs D. 2 1/2 hrs
20. The ratio of boys to girls is a class of 75 pupils is 7:8. How many boys are there in the class?
A. 35 B. 40 C. 57 D. 60
21. My watch loses 5mins everyday. If I set it right on Monday 12.00 noon, what time will it shows on Thurs day at 12.00 noon the same week?
A. 11.45 pm B. 11.40 pm
C. 12.15 pm D. 11.45 am
22. Morgan is allowed 8% discount after buying a refrigerator on cash. The hire puchse deposit is shs 8000 and 8 equal monthly installments of shs 2000 each. If the cash price is 3/4 of hire purchase, how much did Mogan pay for it?
A. shs 24000 B. shs 16560
C. shs 18000 D. shs 14400
23. Usrin, Ali and Joe dress in suit after 2 days, 3 days and 4 days respectively. If they were last seen in suit on 25th February, 2007, when will they be seen in suits in the same day?
A. 8th March 2007 B. 9th March 2007
C. 10th March 2007 D. 7th March 2007
24. Work out: $\frac{1}{3}$ of $(2\frac{1}{2} - 1\frac{1}{2}) + \frac{3}{4} \div \frac{3}{8}$
A. $\frac{7}{10}$ B. $2\frac{1}{30}$
C. $\frac{7}{30}$ D. $2\frac{1}{5}$
25. What is 746.4793 rounded off to the nearest tenths
A. 746.5 B. 746.57 C. 747.57 D. 746.48
26. The pie chart below shows Ndung'us earning.

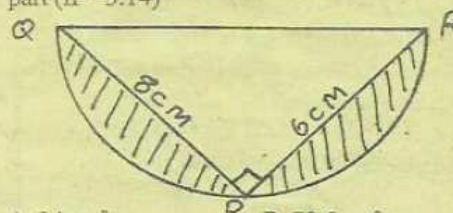


If Ndungu's bonus is shs 1800, what was his basic salary?

- A. shs 4500 B. shs 2400
C. shs 12000 D. shs 27000
27. Room measuring 9m by 6, high is covered with square tiles of 15cm. How many tiles are required to cover the floor?
A. 720000 B. 800 C. 2400 D. 7200
28. A hawker bought 600 oranges at shs 5 per orange. He arranged them in piles of 4 and sold each pile for shs. 25. What was the percentage (%) profit?
A. 75% B. 20% C. 25% D. 5%
29. Draw a triangle ABC where AB = 5cm, AC - BC = 4.5 cm. Construct a circle touching lines B, BC and AC. What is the radius of the circle?
A. 5.8 cm B. 2.9 cm C. 2.6 cm D. 1.3 cm
30. Find the surface area of the closed cylinder shown

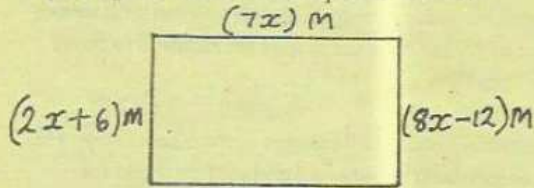


- A. 968 cm² B. 660 cm²
C. 308 cm² D. 814 cm²
31. It takes 12 men 15 days to complete a piece of work. How much longer would it take 9 men working at the same rate to do the same work?
A. 20 days B. 5 days C. 8 days D. 11 days
32. A tank is 3/4 full of water. When 5 litres were removed, it remained 1/2 full. How much water does it hold when completely full?
A. 25L B. 20L C. 10L D. 15L
33. In the figure below QR is a diameter of semicircle, PQ = 8cm and PR = 6cm. Find the are of the shaded part (π = 3.14)



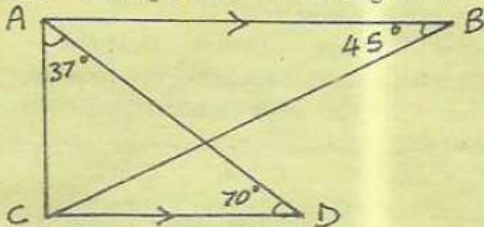
- A. 24 cm² B. 78.5 cm²
C. 39.25cm² D. 15.25 cm²
34. A football match kicked off at 1530h. The first half listed 46 mins, whereas the second half lasted 49 mins. If there was a break interval of 10mins, at what time did the game end?
A. 1715 h B. 174h C. 1705'h D. 1616 h

35. A farmer fenced the plot below using 3 strands of wire. What length of wire does he require in metres?



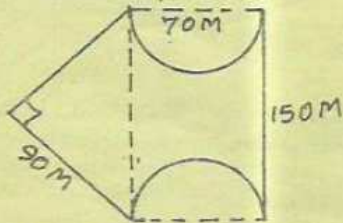
- A. 105 m B. 75 m C. 198 m D. 35
36. Find the second next number
2, 5, 11, 23, _____, _____
.95 B. 47 C. 48 D. 142
37. What is the value of $0.15 \times 1.704 \div 11.36$
A. 2.25 B. 0.225 C. 0.0225 D. 22.5
38. Find the square root of: $14\frac{1}{16}$
A. $3\frac{3}{4}$ B. $2\frac{1}{2}$ C. $1\frac{7}{8}$ D. $\frac{13}{16}$
39. The temperature of frozen mas of ice ws 00°c . After sometimes the temperature rose by 580°c . What was the final reading on the thermometer
A. 29°c B. 0°c C. 58°c D. 48°c
40. A wheel has a diameter of 42cm. How many revolutions does it make to cover a distance of 33km?
A. 2500 B. 25000
C. 50000 D. 250000

41. In the figure below AB is parallel to CD. Angle $ABC = 45^{\circ}$, angle $ADC = 70^{\circ}$ and angle $CAD = 37^{\circ}$



Find the size of angle ACB

- A. 77° B. 73° C. 107° D. 28°
42. There are 1600 pupils in Starche academy. Each pupil is given 2dl packets of milk daily. How many litres of milk do they take in 5 days?
A. 3600L B. 1600L C. 2240L D. 224L
43. Find the distance round the piece of land

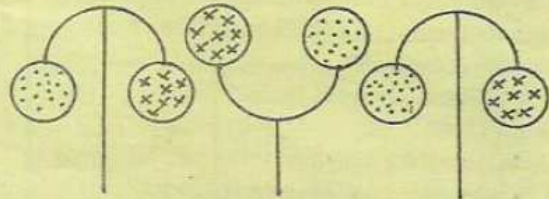


- A. 3480 m B. 460 m C. 580 m D. 570m

44. Find the value: $\frac{(ba + a^2) + c^2}{a + c}$

given that $a = c + 2$, $b = a - 3$, $c = 6$

- A. 20 B. 30 C. 10 D. 14
45. In a wedding the number of women was three times that of men. The number of children were 120 fewer than the women. There were 480 children. How many men had attended the party?
A. 200 B. 600 C. 1200 D. 1280
46. Work out: $\frac{2.5 \times 0.72}{1.44 \times 0.625}$
A. 2 B. 20 C. 0.2 D. 200
47. A piece of string measuring 0.16m was cut into equal pieces measuring 2cm each. How many pieces were obtained?
A. 0.8 B. 0.08 C. 8 D. 80
48. John is 12 years older than his son. If the son is x years old now, what will be their total age after 5 years?
A. $2x + 22$ B. $2x + 30$ C. $2x - 30$ D. $2x + 10$
49. Solve the following inequality
 $2(2y + 3) < 3y + 8$
A. $y > 2$ B. $y < 2$ C. $y < 14$ D. $y > 14$
- 50.



What is the next shape in the pattern above?

