STD 7 - YEAR 2016
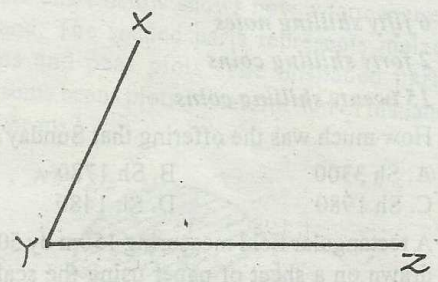# MATHEMATICS

Time 2Hrs

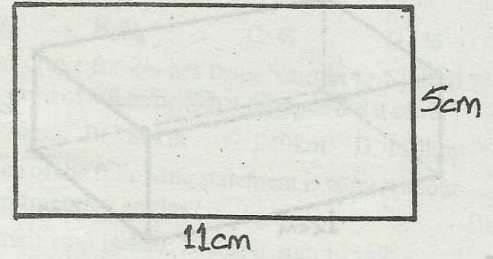## READ THESE INSTRUCTIONS CAREFULLY

1. *Use only an ordinary pencil.*
2. *Make sure that you have written on the answer sheet:-*
   (I) YOUR NAME   *(II) NAME OF YOUR SCHOOL*
3. *For each question show the correct answer by drawing line in the brackets in which the letter you have choosen is written.*

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1. Which one of the following is thirty million four hundred and sixty eight thousand and five in figures?
   - A. 30468050
   - B. 3046805
   - C. 30468005
   - D. 304685

2. What is the number 896548 rounded off to the nearest thousands?
   - A. 897000
   - B. 896000
   - C. 900000
   - D. 890000

3. How many days are there from 20th January to 20th March in a leap year?
   - A. 58 days
   - B. 60 days
   - C. 59 days
   - D. 61 days

4. What is the place value of digit 9 in the number **709274?**
   - A. Nine thousand
   - B. Tens of thousand
   - C. Thousand
   - D. Nine hundreds

5. What is the value of $\dfrac{8^2 - 2}{4^2}$
   - A. 2
   - B. 4
   - C. 0
   - D. 6

6. Mugambi bought the following items.
   2 packets of wheat flour at Sh 145 each
   2 tins of charcoal for Sh 150
   2 loaves of bread @ Sh 35
   If he had a Sh 700, how much money was he left with?
   - A. 190
   - B. 90
   - C. 490
   - D. 290

7. What is the value of $2(x + 1) - 4 = 6$
   - A. 1
   - B. 2
   - C. 4
   - D. 3

8. A triangle whose area is 60cm² has a base of 12cm. Calculate the height of the triangle.
   - A. 5cm
   - B. 20cm
   - C. 720cm
   - D. 10cm

9. Which is the correct order of writing the fractions $^2/_3$, ¼ and $^3/_5$ from the smallest to the largest?
   - A. 2/3, 3/5, ¼
   - B. ¼, $^3/_5$, $^2/_3$
   - C. $^3/_5$, ¼, $^2/_3$
   - D. $^2/_3$, ¼, $^3/_5$

10. The angle **XYZ** is drawn to scale. Find its measure.

   - A. 75⁰
   - B. 115⁰
   - C. 125⁰
   - D. 65⁰

11. Find the perimeter of the rectangular plot of land shown below.

   5cm
   11cm

   - A. 32cm
   - B. 64cm
   - C. 16cm
   - D. 55cm

12. Mwihaki was offered a discount of Sh 10 for every 100 she spends at Naivas supermarket. How much money did she pay for a dress whose marked price was Sh 700?
   - A. 810
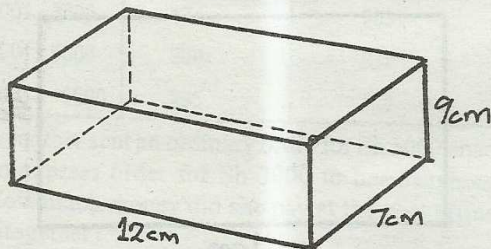   - B. 730
   - C. 630
   - D. 800

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13. The table shows the amount of litres delivered by farmer in five days. What was the mean amount of litres delivered?

Days	Mon	Tue	Wed	Thur	Fri
Litres	18	24	32	42	54

    A. 54   B. 34   C. 32   D. 170

14. Mutiso, Peter and Ann shared the profit made by their firm such that Mutiso got $^1/_3$, Peter $^2/_5$ and Ann $^4/_{15}$. If the total profit was Sh 150000. How much did Peter get?

    A. Sh 50000   B. Sh 40000
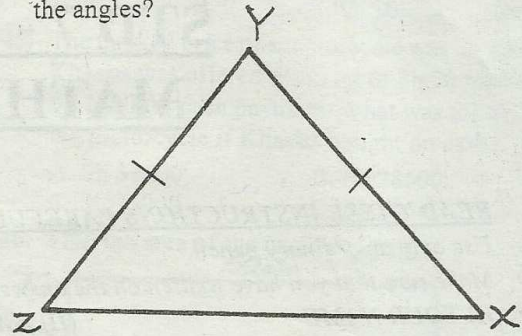   C. Sh 30000   D. Sh 60000

15. Find the value of:-
$$\frac{6.4 - 1.4}{2}$$

    A. 2½   B. 5   C. 3½   D. 2

16. During a Sunday service, the offerings were as follows.

3 two hundred shillings note

7 one hundred shilling note

6 fifty shilling notes

2 forty shilling coins

15 twenty shilling coins

How much was the offering that Sunday?

    A. Sh 3300   B. Sh 1780
    C. Sh 1980   D. Sh 1480

17. A rectangular field measuring 150m by 50m was drawn on a sheet of paper using the scale 1cm represent 25 metres. What was the perimeter of the drawn field?

    A. 200cm   B. 16cm   C. 8cm   D. 100cm
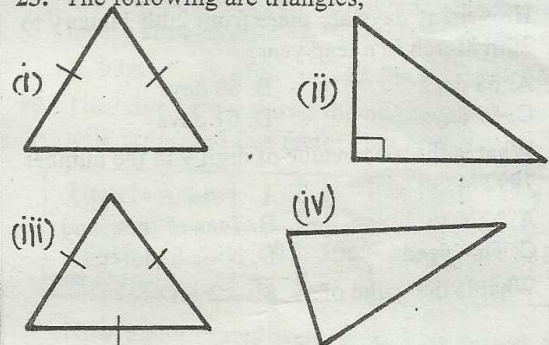
18. Calculate the volume of the below cuboid.

    A. 756cm²   B. 756cm³
    C. 846cm³   D. 846cm²

19. Simplify the following
$^1/_3$ (9c + 12d) + 3(3c + d)

    A. 12c + 15d   B. 36c + 39d
    C. 7d + 4d   D. 12c + 7d

20. Below is a triangle XYZ in which XY = YZ. Which one of the statement below is true about the angles?

    A. YXZ = ZYX   B. ZYX = ZXY
    C. YZX = YXZ   D. ZXY = YZX

21. The diagonals of a rectangular flower garden is 5cm. If one side of the garden measured 4m, what is the measurement of the other side?

    A. 3m   B. 9m   C. 6m   D. 2m

22. $^1/_5$ of children in a class of 45 children were absent. If $^1/_3$ of those absent were girls, how many boys were absent?

    A. 3   B. 9   C. 5   D. 6

23. The following are triangles,
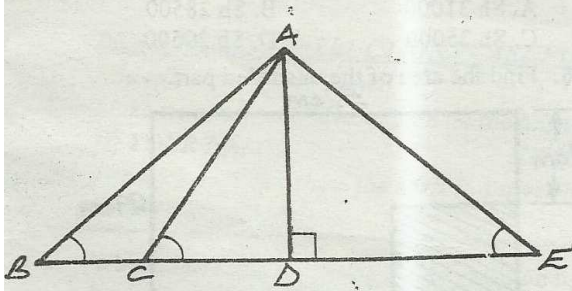

Which of the following describe their names?

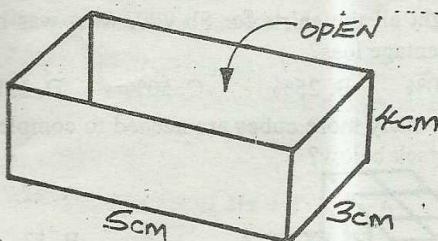|	(i)	(ii)	(iii)	(iv)
A.	Scalene	right angle	equilateral	isosceles
B.	Isosceles	right angle	equilateral	scalene
C.	Isosceles	equilateral	right angle	scalene
D.	Equilateral	right angle	isosceles	scalene

24. In a factory workers are paid Ksh 250 per day. In one week a total of six workers were present each day from Monday to Friday. How much in total did the workers receive in that week?

    A. Sh 1500   B. Sh 10500
    C. Sh 1750   D. Sh 7500

25. A family uses 5 decilitres of milk each day. How many litres of milk altogether would the family use in the month of January?

A. 10.5*l*   B. 15*l*
C. 15.5*l*   D. 20*l*

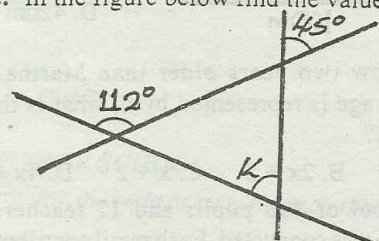26. Study the diagram shown below carefully.

Which one of the lines is perpendicular to line BE?

A. BA   B. AC
C. AD   D. EA

27. Three bells rings at intervals of 40 min, 3 min and 60 min. After how long will they ring together again if they ring together now?

A. 12 hrs
B. 1 hr
C. 2hr
D. 130 min

28. What is the value of $4(8x + 12y) + 3(4x - 9y)$

A. $20x - 75y$
B. $10x + 21y$
C. $10x - 75y$
D. $44x + 21y$
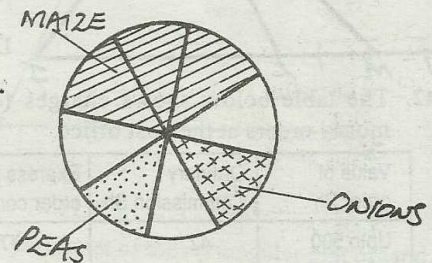
29. What is the surface area of the open cuboid below?

A. 60cm²   B. 79cm²
C. 94cm²   D. 120cm²

30. What is the value of $\frac{1}{2} \div \frac{2}{3} + \frac{7}{8}$

A. $1\frac{1}{8}$ B. $2\frac{5}{6}$ C. $1\frac{5}{8}$ D. $3\frac{5}{8}$

31. Saida bought 10 debes of potatoes each at Sh 400. She later sold potatoes making a 20% profit. For how much did she sell each debe of potatoes?

A. 420   B. 320   C. 400   D. 480
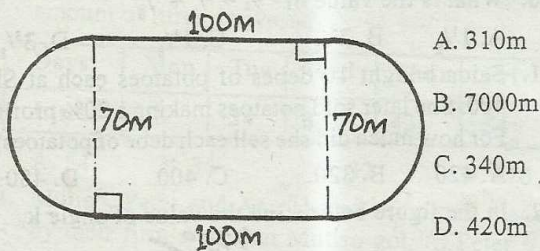
32. In the figure below find the value of angle **k**.

A. 45⁰   B. 68⁰   C. 67⁰   D. 40⁰

33. Mukui left Mombasa on Tuesday at 6.30p.m and took 2 hours 45 minutes to reach his home. At what time did he reach home?

A. 3.15 p.m   B. 8.15 a.m
C. 8.15 p.m   D. 9.15 p.m

34. The pie chart below shows how a farmer uses his land. The shaded parts represents maize, onions and peas plots. The unshaded parts represents beans plots. What fraction of his land is for beans?

A. ³/₈   B. ¹/₈   C. ½   D. ¼

35. A car drove for 2½ hrs from Nairobi to Njabini at a speed of 60km/hr. What distance did it cover?

A. 120km   B. 180km   C. 240km   D. 150km

36. Which of the following statement is correct about complimentary angles?

A. Their sum is 180⁰   B. Their sum is 360⁰
C. Their sum is 90⁰   D. Their difference is 180⁰

37. Kamau was counting the number of papers in his exercise book. After counting up to the centre of the book he found he had counted 25 papers. How many pages did his book have?

A. 50 pages   B. 48 pages
C. 64 pages   D. 100 pages

38. Calculate the distance round the field below.
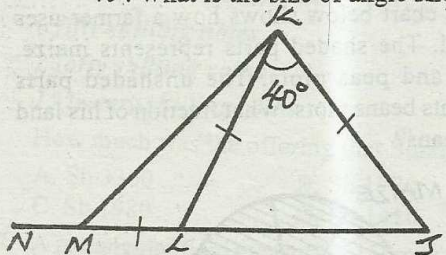

A. 310m

B. 7000m

C. 340m

D. 420m

39. Ali is now two years older than Martha. If Martha's age is represented by x, what is their total ages?

A. 3x + 2   B. 2x + 2   C. x + 2   D. 4x + 2

40. In a school of 480 pupils and 12 teachers a harambee was conducted. Each pupil contributed Sh 15 and each teacher Sh 250. How much was contributed in the harambee?

A. Sh 10200   B. Sh 7200
C. Sh 11200   D. Sh 3000

41. In the diagram below JK = KL = LM angle JKL = 40⁰. What is the size of angle KML?

A. 70⁰

B. 145⁰

C. 35⁰

D. 110⁰

42. The table below shows charges for sending money orders at the post office.

Value of order Sh	Ordinary Commission Sh	Express money order commission Sh
Upto 500	42	77
501 - 1000	114	146
1001 - 3000	174	203
3001 - 5000	209	237
5001 - 10000	295	319

A mother sent an ordinary order for Sh 5000 anad an express order for Sh 3000 to her daughter. How much money did she pay at the post office altogether?

A. 8412   B. 412   C. 8000   D. 383

43. A salesman is paid Ksh 100 for every sale worth Ksh 2000 in a day that he made sales worth Sh 48000. How much was he paid?

A. Sh 480   B. Sh 2400
C. Sh 4800   D. Sh 1200

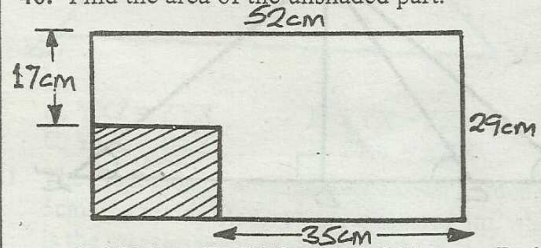44. What is the next number in the following pattern?
48, 35, 24, 15, _____
A. 9   B. 7   C. 10   D. 8

45. The marked price of a motorcycle was Sh 30000. Khaeba was offered discount of Sh 50 for every Sh 1000 for cash payment. What was the cost of the motorcycle if Khaeba bought on cash?
A. Sh 31000   B. Sh 28500
C. Sh 25000   D. Sh 29500

46. Find the area of the unshaded part.

A. 1304   B. 1712   C. 204   D. 1508

47. A tailor was making clothes for Kiarie's wedding. He made 5 suits for adult men and 8 suits for young boys. He also made 8 dresses for adult women and 10 dresses for young girls. The materila used for adults was twice that of children. If he used 3m to make a suit for men and 3m for women dress, how many metres did he use altogether?

A. 93m   B. 66m   C. 76m   D. 56m

48. The table below shows the number of crates of milk processed in a factory per hour.

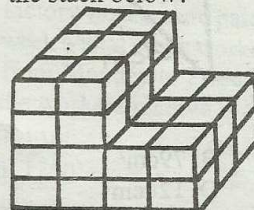| Time in hours	1	2	3	4	5
Number of crates	50	100	150	200	250

How many crates were processed within 3½ hours?
A. 515   B. 175   C. 165   D. 190

49. Akero sold three shirts at Sh 240 each. If he bought all the shirts for Sh 900, what was his percentage loss?
A. 20%   B. 25%   C. 50%   D. 15%

50. How many more cubes are needed to complete the stack below?

A. 52

B. 12

C. 64

D. 18