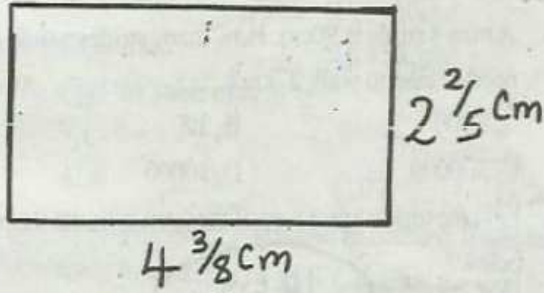

STANDARD SEVEN YEAR 2016

END-TERM 2, MATHEMATICS PAPER 1HR-40MINS

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MATHEMATICS

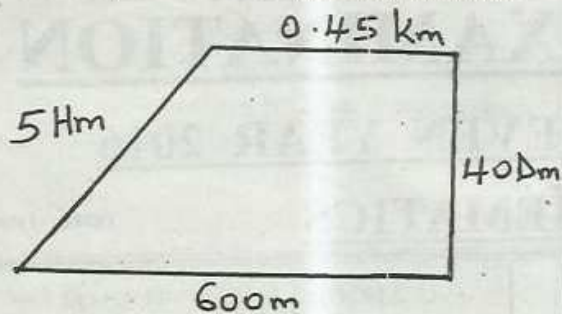
TIME: 1HR. 40MINS

- Write 68420000 in words.
 - sixty eight million four hundred and twenty thousand
 - sixty eighty million four hundred and twenty thousand
 - six eight million four hundred and twenty
 - six eighty million four thousand and twenty
- What is the place value of digit 6 in the number 40.106?
 - tenths
 - hundredths
 - thousandths
 - ones
- Round off the product of 370010 and 25 to the nearest thousands.
 - 9250000
 - 9251000
 - 9251200
 - 9200000
- Thirty two members of a self help group shared shs. 145920 equally. How much did each member receive?
 - shs. 40560
 - shs. 45600
 - shs. 4560
 - shs. 45060
- Find the least number that can be subtracted from 52659 to make it divisible by eleven?
 - 13
 - 1
 - 2
 - 5
- A square garden has an area of $13\frac{4}{9}m^2$. Find its perimeter.
 - $3\frac{2}{3}m$
 - $14\frac{2}{3}m$
 - $52\frac{4}{9}m$
 - $52\frac{2}{3}m$
- Which of the following fraction is not recurring?
 - $\frac{11}{15}$
 - $\frac{2}{3}$
 - $\frac{5}{8}$
 - $\frac{1}{11}$
- A rectangular floor board measuring 8m by 4.8m is to be covered with square tiles measuring 0.4m by 0.4m. How many tiles will be required to cover the floor completely?
 - 320
 - 240
 - 120
 - 600
- Work out: $\sqrt{0.0144} + (1.18)^2$
 - 1.5124
 - 2.48
 - 2.5924
 - 2.5124
- $\frac{7}{20}$ of the number of pupils in a school are boys. What percentage of the school are girls?
 - 35%
 - 25%
 - 65%
 - 40%
- During a presidential election the winning candidate garnered 8400576 votes while the second candidate garnered 5487498 votes. If there were 15080600 registered voters, how many did not vote?
 - 2913078
 - 12167522
 - 6680024
 - 1192526
- A secondary school has a student enrolment of 295. Each of the student paid shs. 12350 as school fees. How much was collected in total?
 - shs. 3643250
 - shs. 4643250
 - shs. 3640250
 - shs. 3600250
- Find the area of the figure below.

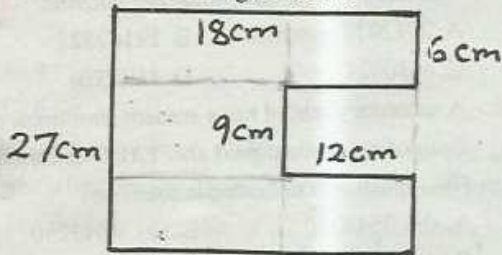
A rectangle is shown with a height of $2\frac{2}{5}cm$ and a width of $4\frac{3}{8}cm$.

 - $8\frac{2}{20}cm^2$
 - $10\frac{1}{2}cm^2$
 - $8\frac{1}{2}cm^2$
 - $10\frac{3}{20}cm^2$
- What is the sum of the prime numbers between 30 and 50?
 - 400
 - 80
 - 199
 - 152

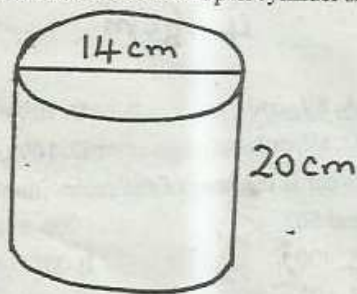
15. Find the perimeter of the figure below in metres?



- A. 1950m B. 2000m
 C. 2200m D. 1600m
16. What is the circumference of a circle whose area is 50.24m^2 . (take $\pi = 3.14$)
- A. 16m B. 25.12m
 C. 100.48 D. 8m
17. Find the area of the figure below.



- A. 216cm^2 B. 486cm^2
 C. 378cm^2 D. 404cm^2
18. A man's stride is 90cm. How many strides would he need to take to walk 27km?
- A. 3000 B. 300
 C. 300000 D. 30000
19. Find the total surface area of the open cylinder shown below?

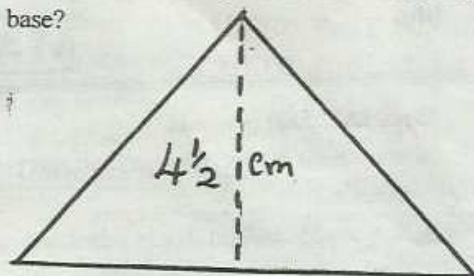


- A. 1188cm^2 B. 1034cm^2
 C. 280cm^2 D. 3080cm^2

20. A shopkeeper buys coats at shs. 800 on every coat he sells he makes a 25% profit. Calculate his selling price.

- A. shs. 825 B. shs. 1000
 C. shs. 1200 D. shs. 1450

21. The area of the triangle below is 18cm^2 . What is its base?



- A. 4cm B. 8cm C. 2cm D. 4.5cm

22. Calculate: 2.1×0.048

5.6

- A. 0.018 B. 0.18
 C. 1.8 D. 0.0018

23. What is the next number in the following series?

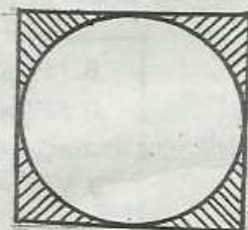
2, 5, 11, 23, 47, _____

- A. 85 B. 94
 C. 95 D. 70

24. Arrange the fractions $\frac{3}{5}, \frac{7}{10}, \frac{5}{8}, \frac{27}{40}$ in ascending order.

- A. $\frac{3}{5}, \frac{5}{8}, \frac{7}{10}, \frac{27}{40}$ B. $\frac{27}{40}, \frac{7}{10}, \frac{5}{8}, \frac{3}{5}$
 C. $\frac{3}{5}, \frac{5}{8}, \frac{27}{40}, \frac{7}{10}$ D. $\frac{7}{10}, \frac{27}{40}, \frac{5}{8}, \frac{3}{5}$

25. The area of the circle below is 154cm^2 . Calculate the area of the shaded part.

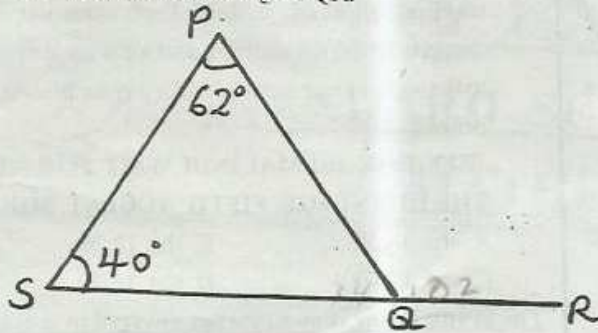


- A. 49cm^2 B. 42cm^2
 C. 22.5cm^2 D. 63cm^2

26. Simplify: $\frac{1}{3}(9x - 6y) + \frac{1}{2}(4x + 6y)$

- A. $5x - y$ B. $5x - 5y$
 C. $5x + y$ D. $5x + 5y$

27. Find the size of angle PQR.



- A. 112° B. 128° C. 102° D. 140°

28. Express 0.225 as a percentage.

- A. 22.5% B. 25%
C. 225% D. 2.25%

29. Which of the following statements about angles is not true?

- A. two complementary angles make one right angle
B. two supplementary angles make one straight angle
C. vertically opposite angles are equal
D. the sum of two acute angles is always an acute angle

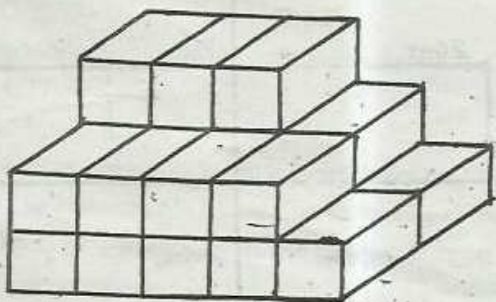
30. A shopkeeper allowed $7\frac{1}{2}\%$ discount on all items. How much would a customer pay for an item whose marked price is shs. 250?

- A. shs. 187.50 B. shs. 242.50
C. shs. 257.50 D. shs. 231.25

31. How many tenths are there in a half?

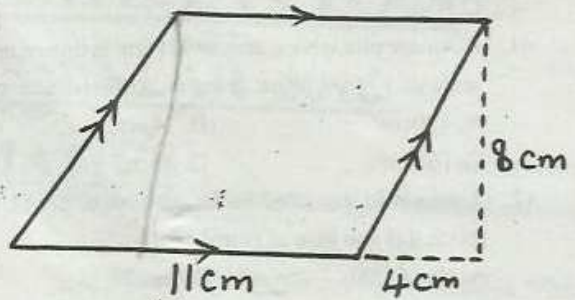
- A. 5 B. 50
C. 0.5 D. 500

32. How many small cubes are needed to fill the stack below?



- A. 9 B. 30 C. 21 D. 6

33. Find the area of the figure below.



- A. 120cm^2 B. 88cm^2
C. 32cm^2 D. 80cm^2

34. What is the next fraction in the sequence.

$$\frac{3}{4}, 2\frac{1}{4}, 3\frac{3}{4}, 5\frac{1}{4}, \underline{\hspace{2cm}}$$

- A. $6\frac{3}{4}$ B. $6\frac{1}{4}$ C. $6\frac{5}{4}$ D. $5\frac{3}{4}$

35. Work out: $\frac{2}{5}$ of $(6 + 3) \times \frac{1}{8}$

- A. 10 B. $\frac{1}{10}$ C. $\frac{1}{5}$ D. $\frac{1}{2}$

36. A paw paw tree was 160cm tall. Within two months the height increased by $7\frac{1}{2}\%$. Find the new height of the paw paw tree.

- A. 172 B. 162 C. 167.5 D. 175

37. Calculate the total surface area of a closed cuboid which has the following measurements length 22cm width 18cm and height 10cm.

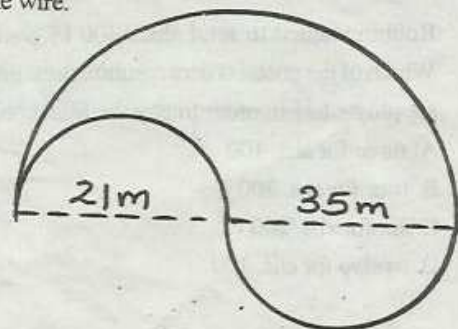
- A. 1296cm^2 B. 3960cm^2
C. 1196cm^2 D. 1592cm^2

38. Find the value of X in:-

$$\frac{2}{3}x - 7 = 8 - \frac{1}{6}x$$

- A. 6 B. 18 C. 27 D. 24

39. The figure below represents an orchard. It was fenced using four strands of wire. Calculate the total length of the wire.



- A. 176cm B. 704cm
C. 204cm D. 1020cm

40. Work out: $7\frac{7}{10} - 8\frac{1}{5} + 3\frac{1}{4}$
 A. $2\frac{7}{20}$ B. $4\frac{7}{20}$
 C. $4\frac{1}{20}$ D. $2\frac{7}{20}$
41. A square plot whose area is 9216m^2 is drawn using a scale of **1 : 800**. What is the area of its drawing?
 A. 120cm^2 B. 144cm^2
 C. 164cm^2 D. 48cm^2
42. A man paid shs. 2767.80 for 42 litres of petrol. How much did one litre of petrol cost?
 A. shs. 65.90 B. shs. 72
 C. shs. 46.80 D. shs. 54.50
43. Milk is packed in 2 decilitre packets. How many packets are required to pack 0.1m^3 of milk?
 A. 5000 B. 50
 C. 50000 D. 500
44. If $w = 4$, $x = 3$ and $y = 2 + \frac{1}{2}w$,
 Find the value of: $w + y - x$
 A. 4 B. 5
 C. 6 D. 4.5
45. A sales girl earned a 5% commission on her sales plus a basic salary of shs. 33000 in the month of July. She made a daily sale of shs. 1600. How much did she earn in that month?
 A. shs. 35080 B. shs. 35480
 C. shs. 36200 D. shs. 34600

46. **The table below shows postal order commission**

| Value of order (Kshs) | Commission |
|-----------------------|------------|
| 100 | 11 |
| 200 | 12 |
| 300 | 23 |
| 400 | 39 |

Robbin wanted to send shs. 1200 by postal orders. Which of the postal orders combinations given below should he buy in order to pay the least commission?

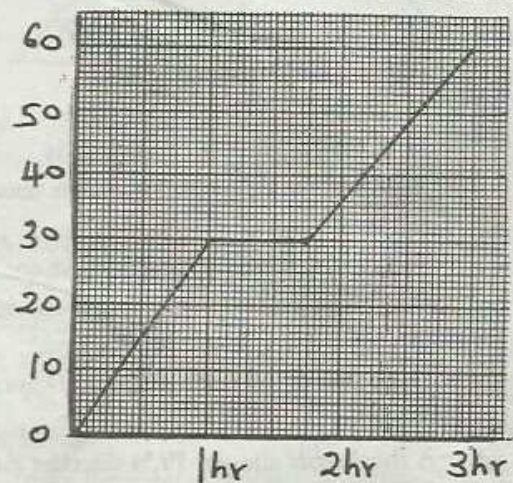
- A. three for shs. 400
 B. four for shs. 300
 C. six for shs. 200
 D. twelve for shs. 100

47. The charges for sending a telegram were shs. 15 for the first ten words or less. Each extra word was charged 40cts. An additional of 10% tax was added to the total. How much did Mike pay for the telegram below?

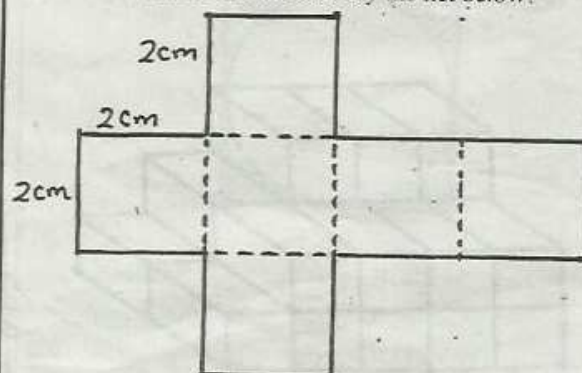
JEFF BOX 101 MALINDI WAIT FOR ME AT THE BUS STAGE FIFTH AUGUST MIKE

- A. shs. 16.60 B. shs. 18.26
 C. shs. 17.60 D. shs. 16.70

The graph below shows journey covered by a cyclist.



48. Calculate the average speed for the cyclist.
 A. 30km/hr B. 20km/hr
 C. 60km/hr D. 10km/hr
49. For how long did the cyclist rest?
 A. 1h B. $\frac{1}{2}$ h C. $\frac{3}{4}$ h D. $\frac{1}{4}$ h
50. Which solid can be made by the net below?



- A. Cuboid B. Cube
 C. Trapezium D. Box