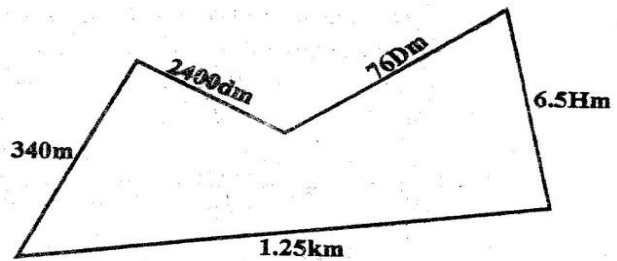


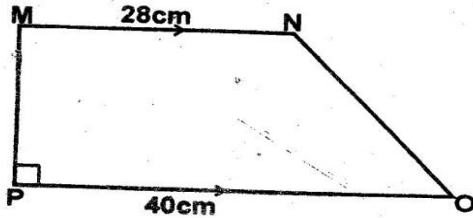
- What is 13101011 written in words?
 - Thirteen million eleven thousand one hundred and one
 - Thirteen million eleven thousand and eleven
 - Thirteen million one hundred and one thousand and eleven
 - Thirteen million one hundred and one thousand one hundred and one
- What is the total value of digit 7 in the number: 40760532?
 - Hundred thousands
 - Seventy thousand
 - Ten thousand
 - Seven hundred thousand
- The area of a square plot of land is 576m². The plot was fenced using three strands of wire. What was the total length of wire used?
 - 24m
 - 288m
 - 96m
 - 72m
- What is the value of $\frac{429 - 189 + 21}{21}$?
 - 420
 - 240
 - 20
 - $\frac{80}{147}$
- What is the value of: $\frac{0.48 \times 0.0135}{0.16 \times 0.15}$?
 - 0.27
 - 27
 - 2.7
 - 0.027
- What is the sum of the L.C.M and the H.C.F of 24, 36 and 72?
 - 12
 - 72
 - 60
 - 84

- In a certain county, the population was 58896755. What was the population to the nearest ten thousand?
 - 58900000
 - 58890000
 - 58896800
 - 58897000
- How many days were there from 3rd January to 3rd April, 2016?
 - 89
 - 90
 - 91
 - 92
- What is the value of: $\frac{1}{4} + (\frac{2}{3} - \frac{1}{9}) + \frac{1}{2}$ of $\frac{1}{2}$?
 - $1\frac{1}{8}$
 - $\frac{3}{4}$
 - $\frac{9}{16}$
 - $1\frac{1}{2}$
- What is the value of 25 ÷ 8 correct to two decimal places?
 - 3.2
 - 3.12
 - 3.13
 - 3.125
- Calculate the perimeter of the figure below in metres.



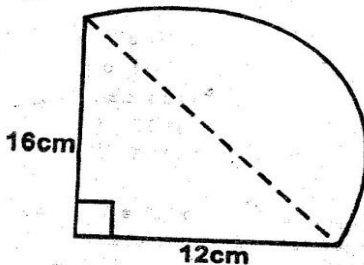
- 3240
 - 324
 - 32.4
 - 32400
- What is the next number in the pattern 10, 14, 23, 39, 64, _____?
 - 89
 - 100
 - 113
 - 81

13. The area of trapezium **MNOP** drawn below is 544cm^2 . Line **MN** is parallel to **PO** and line **MP** is the perpendicular distance.



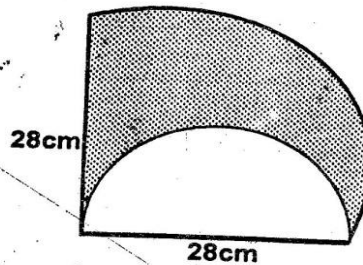
What is the length of **NO**?

- A. 16cm B. 12cm
C. 8cm D. 20cm
14. An open cylindrical tank has an internal diameter of 4.2m and an internal height of 3m. The inside of the tank was painted. What area of the tank, in square metres was painted? (Take $\pi = \frac{22}{7}$)
- A. 39.6 B. 53.46
C. 67.32 D. 41.58
15. A businessman borrowed Sh.80000 in a bank which charged interest at the rate of 12% p.a. How much did he pay back at the end of nine months?
- A. Sh. 7200 B. Sh.6400
C. Sh. 87200 D. Sh. 166400
16. A rectangular tank is 4.5m long, 3m wide and 2.4m high. How many litres of water can it hold when full?
- A. 32.4 B. 3240
C. 32400 D. 324000
17. Calculate the area of the figure below (Take $\pi = 3.14$).

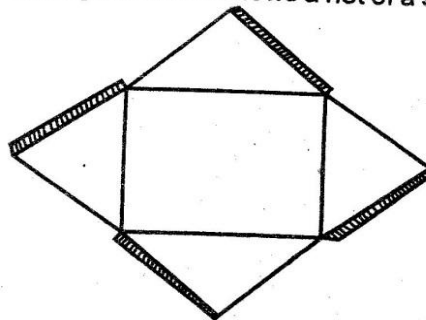


- A. 506cm^2 B. 96cm^2
C. 157cm^2 D. 253cm^2

18. A rectangular field is 97m long and 83m wide. It is fenced using posts placed at an interval of 4m. How many posts were used?
- A. 88 B. 89
C. 91 D. 90
19. Calculate the area of the shaded region in the figure drawn below. (Take $\pi = \frac{22}{7}$)



- A. 616cm^2 B. 308cm^2
C. 924cm^2 D. 1232cm^2
20. Which quadrilateral has all the properties listed below?
- All sides are equal
 - Opposite angles are equal
 - Unequal diagonals
 - Diagonals bisect each other at right angles
- A. Square
B. Rectangle
C. Rhombus
D. Parallelogram
21. The figure below shows a net of a solid.



- What solid can be formed from the net?
- A. Square prism
B. Triangular pyramid
C. Triangular prism
D. Square pyramid

22. The following are lengths of sides of different triangles

(i) 8cm, 15cm, 17cm

(ii) 9cm, 12cm, 13cm

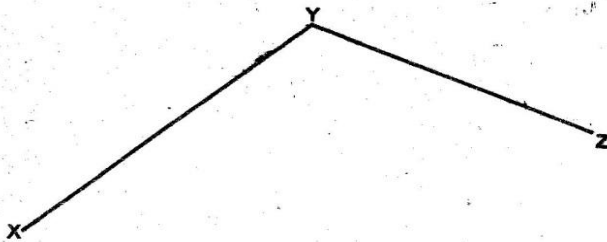
(iii) 6cm, 8cm, 10cm

(iv) 7cm, 24cm, 25cm

Which one of the choices below contains all right angled triangles?

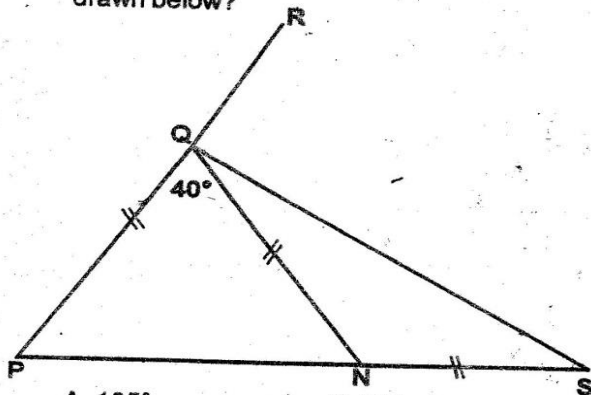
- A. i, ii, iii B. ii, iii, iv
C. i, iii, iv D. i, ii, iv

23. What is the measure of the reflex angle XYZ drawn below?



- A. 115° B. 245°
C. 65° D. 295°

24. What is the size of angle RQS in the figure drawn below?

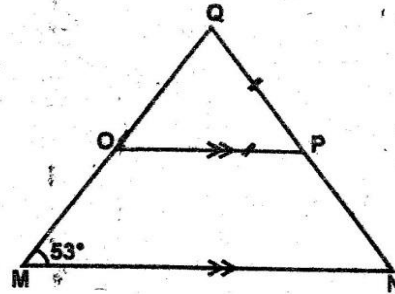


- A. 105° B. 75°
C. 35° D. 100°

25. Using a pair of compasses and a ruler, construct triangle PQR such that lines QR = 7cm, PQ = 8cm and PR = 6cm. Draw a circle which passes through P, Q and R. What is the length of the radius of the circle?

- A. 2cm B. 3.5cm
C. 4.2cm D. 8.3cm

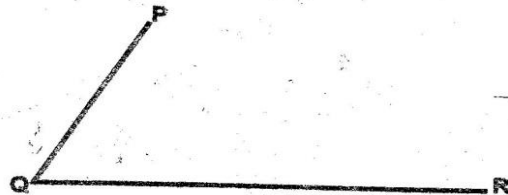
26. In the figure below, line MN is parallel to OP. Line OP = line QP and angle NMO = 53°



What is the size of angle MNP?

- A. 106° B. 127°
C. 74° D. 37°

27. Two sides of a parallelogram PQRS have been drawn below. Complete the parallelogram PQRS. Draw diagonals PR and QS to intersect at O.



What is the length of line QO?

- A. 2.7cm B. 3.5cm
C. 4.4cm D. 6.5cm

28. Express 6 1/4% as a fraction in its simplest form.

- A. 25/4 B. 5/80
C. 1/6 D. 1/16

29. The price of an item decreased from sh 6000 to sh 4800. What was the percentage decrease?

- A. 20% B. 25%
C. 80% D. 125%

30. The ratio of boys to girls in a school is 2:3. If there are 360 girls, how many pupils are there in the school?

- A. 240 B. 540
C. 900 D. 600

31. What is $\frac{1}{3}(x + 6) + \frac{1}{2}(x - 4)$ written in its simplified form?

- A. $\frac{5}{6}x + 2$ B. $\frac{5}{6}x$
 C. $\frac{5}{6}x + 1$ D. $2x$

32. What is the value of: $\frac{2m^2 - 2(n - r)}{n - r}$

if $n = 4$, $r = \frac{1}{2}n$ and $m = r + 1$?

- A. 3 B. 7
 C. 4 D. 16

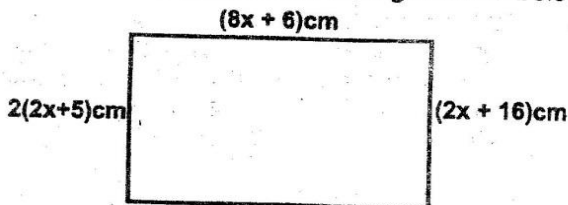
33. What is the value of y in the equation $\frac{2}{3}(2y + 4) + 6 = 10$?

- A. 5 B. 4
 C. 2 D. 1

34. Halima bought n oranges while Mutua bought one more orange than Halima. Nekesa bought twice as many oranges as both Halima and Mutua. Which one of the following expressions shows the total number of oranges they bought?

- A. $6n + 3$ B. $5n + 2$
 C. $4n + 2$ D. $2n + 3$

35. What is the area of the rectangle drawn below?



- A. 484cm^2 B. 660cm^2
 C. 104cm^2 D. 140cm^2

36. A train timetable for station P to U is given below.

Station	Arrival	Departure
P		6.00a.m
Q	8.00a.m	8.45a.m
R	12.20p.m	1.10p.m
S	3.10 p.m	4.00p.m
T	6.30p.m	7.00p.m
U	7.30p.m	

How long does the train take from station R to T?

- A. 6h 40min B. 6h 10min
 C. 5h 50min D. 5h. 20 min

37. Wachira took 2h 15minutes to travel from his home to town at a speed of 8km/h. He took 1h 30 minutes to travel back from town to his home. What was his speed in km/h, from town to his home?

- A. 18km/h B. 27km/h
 C. 12km/h D. 15km/h

38. A section of a road measuring 4km is represented on a map by a length of 10cm. Which one of the following is the scale for the map?

- A. 1:400
 B. 1:4000
 C. 1:40000
 D. 1:400000

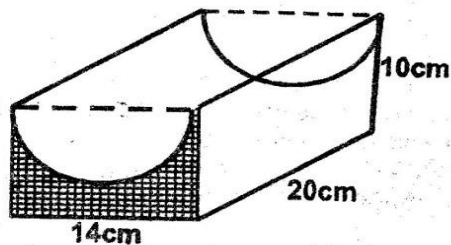
39. The table below shows the number of crates of breads Kamuru sold in one week

Days	Mon	Tue	Wed	Thur	Fri	Sat
No. of crates	20	18	22	16	22	24

What was the median sale of loaves of bread, in crates for the 6 days?

- A. 19 B. 21
 C. $20\frac{1}{3}$ D. 22

40. The figure below represents a solid object in the form of a rectangular block with a semi-circular groove.

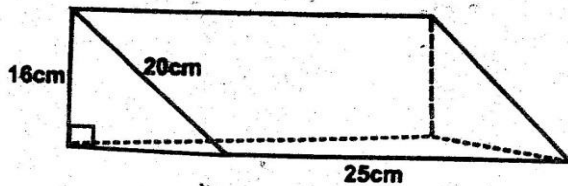


What is the volume of the solid in cm^3 ?

(Take $\pi = \frac{22}{7}$)

- A. 1260 B. 1540
 C. 2360 D. 2800

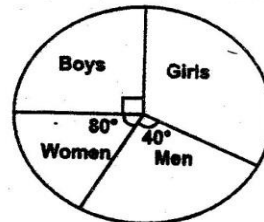
41. What is the volume of the figure below?



- A. 800cm^3 B. 4800cm^3
 C. 1392cm^3 D. 2400cm^3
42. A lorry whose mass is two tonnes when empty was loaded with 40 bags of sugar each weighing 50kg and three bags of maize flour each weighing 65kg. What was the total mass in tonnes of the loaded lorry?
 A. 4.195 B. 4.065
 C. 4.0 D. 3.195
43. A children's home was supplied with 40 cartons of milk. Each carton contained 60 - two decilitre packets of milk. How many litres of milk were supplied?
 A. 48000 B. 4800
 C. 2400 D. 480
44. Muchemi went to the supermarket and bought the following items:-
 - 1 pair of trousers at Sh. 1200
 - 4 pairs of socks for Sh. 500
 - 3 shirts @ Sh. 750
 He paid for the items using four - Sh. 1000 notes. How much more money should he have given the shopkeeper in order to get a balance of Sh.100?
 A. Sh.30 B. Sh.120
 C. Sh.70 D. Sh.50
45. Murage bought a T.V set for Sh.45000. The T.V set was later sold making a 20% loss. For how much was the T.V set sold?
 A. Sh.9000 B. Sh.54000
 C. Sh. 36000 D. Sh.44980
46. Amina paid Sh.10800 for a cupboard after getting a discount of 10% . What was the marked price of the cupboard?
 A. Sh.12000 B. Sh.1080
 C. Sh.9720 D. Sh.11880

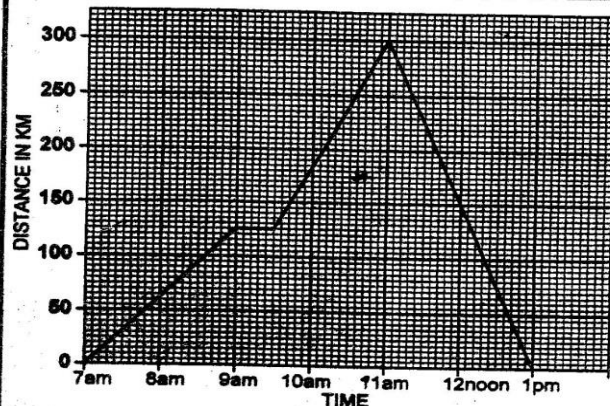
47. The cash price of a sewing machine is Sh.25000. Maria bought the sewing machine on hire purchase terms. She was allowed to pay a deposit equal to 30% of the cash price and ten equal monthly instalments of Sh.2400. How much more money did she pay than the cash price?
 A. Sh.31500 B. Sh. 24000
 C. Sh.6500 D. Sh.7500

48. The population of a certain sub - county is represented by the pie chart below.



If there were 3000 girls, how many more boys than men were there?

- A. 800 B. 1000
 C. 1800 D. 500
49. Eight men working at the same rate can offload a lorry in 3 hours. If 2 of the men are absent, how much more time will the offloading take?
 A. 21h B. 9h
 C. 4h D. 1h
50. The graph below shows a motorist's journey from town P to town R and back.



What was his average speed for the whole journey?

- A. 120km/h B. 100km/h
 C. 75km/h D. 50km/h