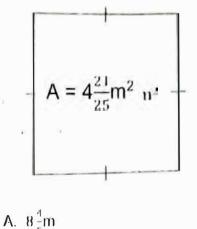
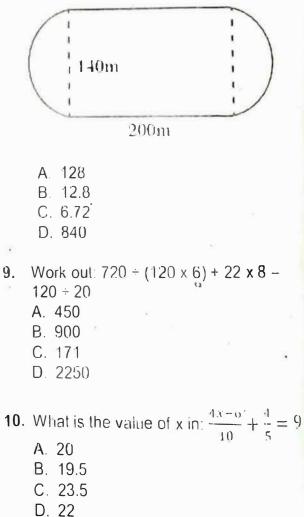
Mathematics 2020

- What is twenty six million two hundred and eight thousand and sixty less four hundred and twenty thousands in figures?
 - A. 2620440
 - B. 26628060
 - C. 25788060
 - D. 25860060
- 2. Find the value of digit 4 in the product of 0.24 and 210.
 - A. Tenths
 - B. Four tenths
 - C. Hundreds
 - D. Four
- Find the sum of the smallest and the largest number that can be formed from the digits:
 - 6, 1, 0, 9, 5.
 - A. 94941
 - B. 95941
 - C. 98079
 - D. 107079
- Find the capacity of a cylinder in litres if the base area is 616cm² and it has a height of 20cm.
 - A. 12320
 - B. 123200
 - C. 102320
 - D. 12.32
- 5. Round off 16499 to the nearest ten thousand.
 - A. 16000.
 - B. 16500
 - C. 20000
 - D. 27000
- 6. Work out: 20.005 ÷ 50
 - A. 40001
 - B. 0.4001
 - C. 4.001
 - D. 0.04001

7. The area of the square below is $4\frac{21}{25}$ m². Calculate its perimeter.



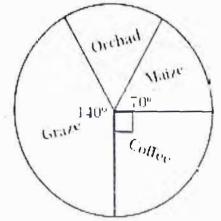
- B. $19\frac{9}{25}$ m C. $2\frac{1}{25}$ m
- D. 4²/₋m
- 8. What distance was covered by an athlete who made 8 laps round the track in km?



Page 2

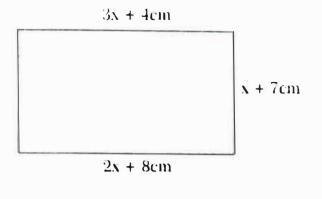
6.25×0.48×0.32 11. Work out

- 1 6x2 4x1 25 A. 2
- B. 0.2
- C. 0.02
- D. 0.002
- 12. The pie-chart below shows how Madam Ann utilized her 72ha piece of land. How many more hectares were used for maize than the orchard?



- A. 4
- B. 6
- C 2
- D. 14
- 13. What is the least number that can be subtracted from 60260 to make it divisible by 11?
 - A. 1
 - B. 2
 - C. 4
 - D. 9
- 14. What is the product of the L.C.M and the G.C.D of 6, 12 and 15?
 - A. 180
 - B. 3
 - C. 60
 - D. 63
- 15. A meeting started at 2240hrs on Saturday. If it took $3\frac{1}{5}$ hrs, at what time and day did it end?
 - A. 0055hrs Sunday
 - B. 1352hrs Sunday
 - C. 1.52a.m Sunday
 - 1.52pm Sunday

16. Calculate the distance round the figure below.



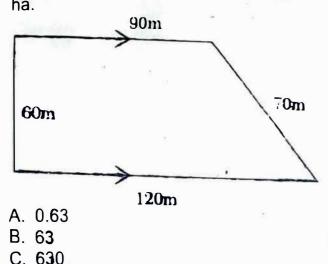
- A. 54cm
- B. 49cm
- C. 88cm
- D. 176cm
- **17.** What is the value of:

$$\frac{2}{3} \times \frac{1}{5} of \ 30 \div 2 - 6 + \frac{1}{2} of \ 8$$

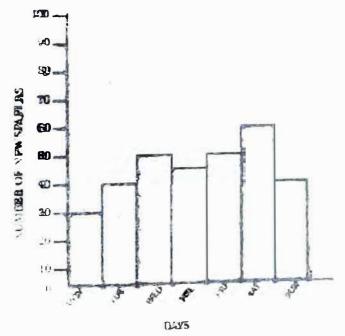
A. 0
B. 4
C. 2

- D. 1
- 18. A road measuring 5km on the ground is represented on a map by a line measuring 25cm. Calculate the scale on the map.
 - A. 1:20000
 - B. 1:2
 - C. 1:200
 - D. 1:200000
- 19. David sold a jacket for sh.1080 and made a 10% loss. Find the buying price of the jacket.
 - A. Sh.1560
 - B. Sh.960
 - C. Sh.1440
 - D. Sh.1200

20. Calculate the area of the figure below in ha.



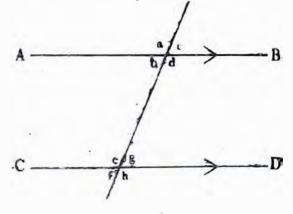
- D. 6.3
- **21.** A packet of salt weight 125g. How many such packets will be needed to make a total of 1.2tons?
 - A. 96000
 - B. 9600
 - C. 960
 - D. 96
 - D. 50
- 22. The bar graph below shows the number of newspapers a news vendor sold over a week.



If a newspaper costs sh.40, how much money did the vendor get from the sales from Wednesday to Saturday?

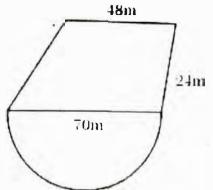
- A. Sh.8400
- B. Sh.7940
- C. Sh.8000
- D. Sh.8200

- 23. In a school, each pupil takes a 2dl packet of milk 2 days per week. How many litres of milk will 130 pupils take in 3 weeks?
 - A. 1.56
 - B. 156
 - C. 15.6
 - D. 1560
- 24. Which of the following statements is true about the figure below?



- A. a + g + f + h = 360° B. d + e = 180° C. a + d = g + f D. b = h
- 25. A school planted 2800 tree seedlings in the year 2008. This was a 40% increase on the seedlings planted in the year 2007. How many tree seedlings were planted in 2007?
 - A. 4200
 - B. 7000
 - C. 2000
 - D. 1120
- 26. Peter borrowed sh.40000 from a bank which charged a simple interest at the rate of 5% p.a. If he paid the money back after the end of 5 years, how much did he pay altogether?
 - A. Sh.50000
 - B. Sh.8000
 - C. Sh.10000
 - D. Sh.48000

27. The figure below represents Joram's homestead. Find its area in Ares.



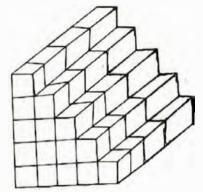
- A. 33.41
- B. 0.3341
- C. 3341
- D. 3.341
- 28. Six people can do a piece of work in 12 days. How many more days will it take four people working at the same rate take to complete the work?
 - A. 6
 - B. 8
 - C. 4
 - D. 18
- **29.** What is the complement of $37\frac{1}{4}$ °.
 - A. $53\frac{1}{4}^{\circ}$
 - B. $52^{\frac{3}{2}}$
 - C. $142\frac{3}{4}$ °
 - D. 143 °

30. Solve:

(16905 – 1500 + 1025 – 1225) ÷ 5 A. 2631 B. 3041

- C. 3121
- D. 15205
 - $3 + 1 1 + \frac{1}{2}$
- B. $-\frac{5}{5}$ C. $\frac{14}{25}$ D. $\frac{33}{40}$

32. How many cubes have been used to make the stack below?



- A. 60B. 40C. 100D. 20
- 33. An inter-school soccer competition started at 3:15pm. After 45 minutes players went for a 15 minutes break. The game took another 55 minutes to end. At what time in the 24hr clock system did the game end?
 - A. 1630h
 - B. 1655h
 - C. 0510h
 - D. 1710h
- The table below shows the number of people who attended an agricultural show one Saturday.

Male adults	Female adults	Children
986	3145	5807

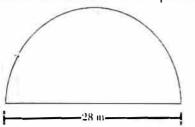
How many more children than adults attended the show?

- A. 4821
- B. 41**3**1
- C. 26**6**2
- D. 1676
- 35. Solve the value of x in:

3(x + 4) - 10 = 32

- A. 10
- B. 12²
- C 12²
- C. $12\frac{2}{3}$
- D. 16-

36. A plot of land is in the shape of a semicircle of diameter of the plot in metres.



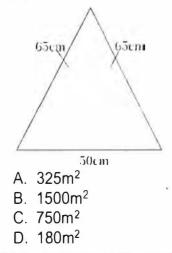
- A. 72m
- B. 44m
- C. 88m
- D. 112m
- 37. What is the value of: $\frac{4a^2 + k^2}{4a^2 + k^2}$ if a = 2, k = 5

$$\frac{2a}{2a}$$
 if $a = 2, k = 5 - a$
A. 3.25

- B. 6.25
- C. 16.25
- D. 4.75
- **38.** Below are properties of a certain quadrilateral.
 - (i) Diagonals are equal
 - (ii) Two pairs of parallel sides
 - (iii) All sides are equal
 - (iv) Diagonals bisect at 90°

Which quadrilateral has been described above?

- A. Rhombus
- B. Square
- C. Rectangle
- D. Parallelogram
- **39.** The diagram below shows a vegetable garden in the shape of an isosceles triangle. Calculate the area of the garden.



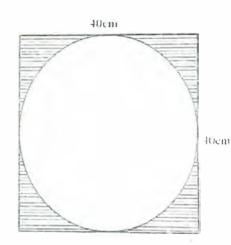
40. Which of the following is the correct order to write the fractions $\frac{3}{4}, \frac{5}{6}, \frac{2}{5}, \frac{7}{10}$ from the largest to the smallest?

A.
$$\frac{5}{6}, \frac{3}{4}, \frac{7}{10}, \frac{2}{5}$$

B. $\frac{5}{7}, \frac{7}{10}, \frac{3}{4}, \frac{2}{5}$
C. $\frac{7}{10}, \frac{5}{7}, \frac{3}{2}, \frac{2}{3}$
D. $\frac{2}{5}, \frac{7}{10}, \frac{3}{4}, \frac{5}{6}$

41. Express the ratio 3:5 as a percentage.

- A. 37.5%
 B. 60%
 C. 62.5%
 D. 166²/₂%
- **42.** The figure below shows a square of side 40cm. A circle is drawn touching all its sides. Calculate the area of the shaded parts. (π =3.14)



- A. 344cm²
- B. 1600cm²
- C. 1256cm²
- D. 160cm²
- **43.** The temperature of a place at 12:00 noon was 36.5°C. Find its new temperature after a drop of 6.9°C.
 - A. 30.6°C
 - B. 43.4°C
 - C. 29.6°C
 - D. 42.4°C

- **44.** Lasai bought the following items from a shop.
 - 2kg sugar @ sh.70 1kg cooking fat @ sh.52 3kg salt @ sh.40

2kg packet of maize flour @ sh.56 If she gave the shopkeeper a sh.1000 note, how much balance did she get? A. Sh.218

- B. Sh.424
- C. Sh.782
- D. Sh.576

45. Nyambura and Winnie shared fish in the ratio 8:5 respectively. If Winnie got 12kg less than Nyambura, how many kgs did the fish weigh?

- A. 32
- B. 20
- C. 44
- D. 52

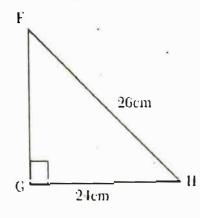
46. Convert $12\frac{1}{2}\%$ as a fraction in the simplest form.

A. $\frac{25}{200}$ B. $\frac{5}{40}$ C. $\frac{25}{2}$ D. $\frac{1}{8}$

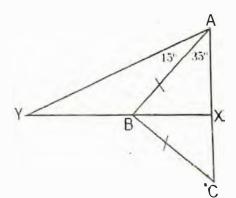
47. Multiply 12.25 x 2.34 correct to 2 decimal places.

- A. 28.6182
- B. 28.66
- C. 28.67
- D. 29.00

48. In the triangle FGH below, GH = 24cm,
FH = 26cm and ∠FGH = 90°. Find the area of the triangles.



- A. 100cm²
- B. 10cm²
- C. 240cm²
- D. 120cm²
- 49. What is the size of angle AYB in the diagram below YX bisects angle ABC.





D. 90°

50. Find the square root of $\sqrt{0.0625}$

- A. 0.25
- B. 0.5
- C. 0.025
- D. 0.05

그는 일이 가 안내었는 않지?