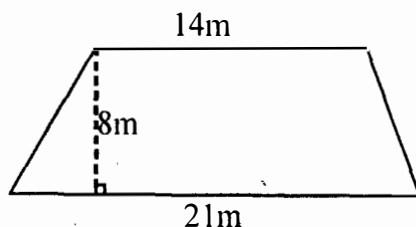


1. What is **3605035** written in words?
  - A. Three million six hundred and five thousand and thirty five.
  - B. Thirty six million five thousand and thirty five.
  - C. Thirty six thousand five hundred and thirty five.
  - D. Three million six hundred and fifty thousand and thirty five.
  
2. What is the value of;
 
$$\frac{2(4 \times 3)^2 + 2(5 + 1)}{3(2 + 3)} ?$$
  - A.  $558\frac{2}{3}$
  - B. 20
  - C.  $35\frac{2}{5}$
  - D. 10
  
3. What is **587.6986** rounded off to 2 decimal places?
  - A. 587.60
  - B. 587.69
  - C. 587.70
  - D. 587.7
  
4. What is the difference between the LCM and the GCD of 8, 24 and 36?
  - A. 68
  - B. 32
  - C. 76
  - D. 18
  
5. How many groups of thousands are in the total value of digit **3** in the number **4368752**?
  - A. 300000
  - B. 30
  - C. 300
  - D. 100
  
6. Which one of the following digits can fill the gap in the number 25 \_ 51 to make it divisible by 11?
  - A. 5
  - B. 3
  - C. 7
  - D. 6
  
7. What is the square root of  $3\frac{1}{16}$ ?
  - A.  $1\frac{3}{4}$
  - B.  $1\frac{1}{4}$
  - C.  $3\frac{4}{7}$
  - D.  $\frac{7}{16}$
  
8. Derick had 150 chicken in the year 2008. In the year 2009 the number of chicken increases to 180. What was the percentage increase in the number of the chicken?
  - A. 120%
  - B. 20%
  - C. 80%
  - D. 60%

9. A rectangular plot of land whose length is 54m has the same area as a square plot of land whose side measures 36m. What is the width of the rectangular plot?
- A. 18m  
B. 48m  
C. 90m  
D. 24m
10. Three bells were set to ring at intervals of 15min, 24min and 1 hour respectively. If they rang together at 11:42am, at what time did they ring together again?
- A. 1:42pm  
B. 1:42am  
C. 1:44am  
D. 9:42pm
11. Maurice's stride is 0.25 metres. How many strides will he make to cover 0.25km?
- A. 10000  
B. 1000  
C. 100  
D. 10

12. Find the area of the figure below.



- A.  $175\text{m}^2$   
B.  $1176\text{m}^2$   
C.  $53\text{m}^2$   
D.  $140\text{m}^2$

13. Arrange the following fractions in descending order.

$$\frac{4}{5}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}$$

- A.  $\frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}$   
B.  $\frac{5}{6}, \frac{3}{4}, \frac{4}{5}, \frac{2}{3}$   
C.  $\frac{5}{6}, \frac{4}{5}, \frac{3}{4}, \frac{2}{3}$   
D.  $\frac{2}{3}, \frac{4}{5}, \frac{3}{4}, \frac{5}{6}$

14. Kombo bought a bull for sh. 28000 and later sold it for sh. 26600.

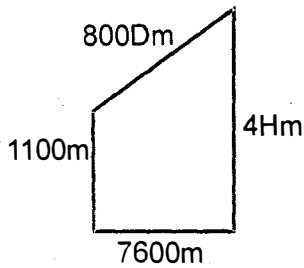
What percentage loss did he make?

- A. 140%  
B. 5%  
C. 95%  
D. 105%
15. What is the value of:  
 $174344 \div 124$  ?
- A. 1460  
B. 14006  
C. 1406  
D. 1046

16. The radius of a bicycle wheel is 35cm. How many revolutions will it make to cover a distance of 8.8km?

- A. 220  
B. 40  
C. 400  
D. 4000

17. Calculate the distance round the figure shown below in kilometers.



- A. 17.1km  
 B. 157.1km  
 C. 16.4km  
 D. 15.11km
18. What is the value of;

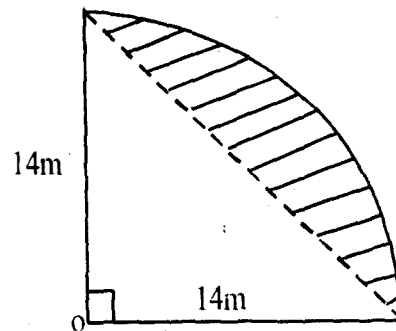
$$6\frac{3}{5} \div 3\frac{2}{3} \times 1\frac{7}{18} ?$$

- A.  $3\frac{1}{12}$   
 B.  $1\frac{2}{7}$   
 C.  $2\frac{1}{2}$   
 D.  $\frac{7}{30}$
19. If  $a = 3$ ,  $b = 5$ ,  $c = (b - a)^2$  and  $d = ac$ , find the value of;
- $$2(d - b) + (c - a)^2$$
- A. 12  
 B. 15  
 C. 23  
 D. 13

20. Owembi and Matayo shared sh. 26000 from their business in the ratio 7:6. How much more did Owembi get than Matayo?

- A. Sh. 14000  
 B. Sh. 12000  
 C. Sh. 16000  
 D. Sh.2000

21. The figure below represents a quarter of a circle with centre O. What is the area of the shaded part?



- A.  $14\text{cm}^2$   
 B.  $28\text{cm}^2$   
 C.  $56\text{cm}^2$   
 D.  $54\text{cm}^2$
22. What is the next number in the pattern below?  
 3, 7, 16, 32, 57, \_\_\_\_
- A. 63  
 B. 93  
 C. 106  
 D. 75
23. Wanjala paid sh.3200 for a bag of maize after getting a discount of 20%. What was the marked price of the bag of maize?
- A. Sh. 4000  
 B. Sh. 3800  
 C. Sh. 3640  
 D. Sh. 3840

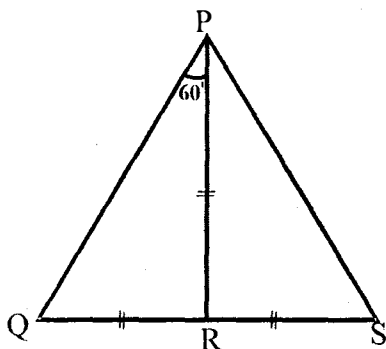
24. What is  $1\frac{1}{4}\%$  expressed as a ratio in its simplest form?

- A. 1:4
- B. 5:4
- C. 1:80
- D. 1:40

25. Njoroge is  $p$  years old now. He is  $q$  years older than his wife. Write an expression to show the sum of their ages in 5 years time.

- A.  $2p - q + 10$
- B.  $2p - 2q + 5$
- C.  $p + q + 5$
- D.  $p + q + 10$

26. In the figure below,  $QRS$  is a straight line. Line  $PR = QR = RS$ . Angle  $QPR = 60^\circ$ . What is the size of angle  $PSR$ ?



- A.  $60^\circ$
- B.  $55^\circ$
- C.  $45^\circ$
- D.  $30^\circ$

27. The area of a right-angled triangle is  $330\text{cm}^2$ . The length of the shortest side is 11cm. What is the length of the longest side?

- A. 30cm
- B. 61cm
- C. 11cm
- D. 60cm

28. Mwangangi deposited sh. 30000 in a bank that paid simple interest at the rate of 8% p.a. What was the total amount of money in the bank at the end of 3 years?

- A. Sh. 34800
- B. Sh. 7200
- C. Sh. 37200
- D. Sh. 4800

29. What is the total surface area of a closed cylindrical tank of height 35cm and a diameter of 28cm?

- A.  $3080\text{cm}^2$
- B.  $1232\text{cm}^2$
- C.  $3520\text{cm}^2$
- D.  $4312\text{cm}^2$

30. A car crosses a bridge 200 metres long in 5 seconds. What is its speed in km/hr?

- A. 30km/h
- B. 144km/h
- C. 40km/hr
- D.  $11\frac{1}{9}$  km/h

31. A saleslady earns a commission of 7% on all the sales she makes. During the month of December, she sold goods worth sh. 450000. How much commission was she paid?

- A. Sh. 418500
- B. Sh. 481500
- C. Sh. 39120
- D. Sh. 31500

32. In a hotel, 9 people were hired to complete a piece of work in 15 hours. How many more hours did it take them to complete the work if 3 people did not turn up?

- A.  $7\frac{1}{2}$  hours
- B. 30 hours
- C.  $22\frac{1}{2}$  hours
- D. 5 hours

33. A circular plot was fenced using two equal strands of wire whose total length was 880m. What was the radius of the plot?

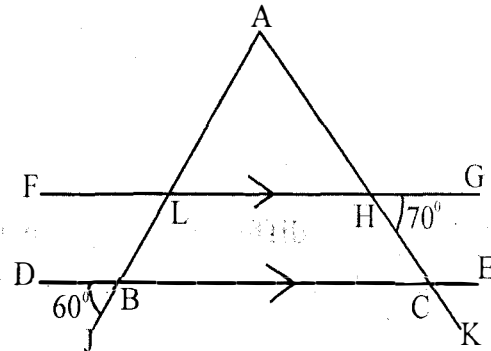
(Take  $\pi = \frac{22}{7}$ )

- A. 210m
- B. 35m
- C. 140m
- D. 70m

34. In a milk processing factory, ten -7 litre containers were processed. It was later re-packed into 5 -decilitre bottles. How many such bottles were obtained?

- A. 1400
- B. 140
- C. 14
- D. 70

35. In the figure below, line DE is parallel to line FG, angle CHG =  $70^\circ$  and angle DBJ =  $60^\circ$ . What is the size of angle BAC?



- A.  $40^\circ$
- B.  $50^\circ$
- C.  $60^\circ$
- D.  $110^\circ$

36. Halima bought the following items from a shop.

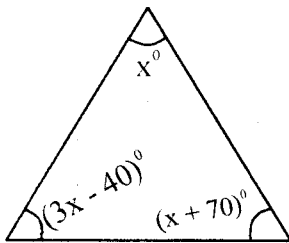
- A 2kg packet of sugar for sh. 160
- 2kg of cooking fat for sh.85per kg
- 3kg of beans @ sh. 65
- $\frac{1}{2}$  kg packet of tea leaves for sh. 120

What balance did she receive if she paid for the items using a sh. 1000 note?

- A. Sh. 175
- B. Sh. 825
- C. Sh. 645
- D. Sh. 355

37. Construct triangle  $XYZ$  where line  $XY = XZ = 6\text{cm}$  and  $YZ = 7\text{cm}$ . Construct a circle passing through the vertices of the triangle. What is the radius of the circle?
- A. 7.5cm  
 B. 3.7cm  
 C. 6.0cm  
 D. 1.8cm

38. What is the difference between the largest and the smallest angles in the figure below?



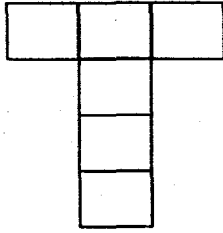
- A.  $30^\circ$   
 B.  $50^\circ$   
 C.  $70^\circ$   
 D.  $100^\circ$
39. The following are properties of quadrilaterals.
- (i) All sides are equal.
  - (ii) Some angles are equal.
  - (iii) Diagonals are equal.
  - (iv) Has a pair of parallel lines.
  - (v) Diagonals bisect each other at right angles.
  - (vi) Opposite sides are equal and parallel.
- Which two properties are for squares and rhombuses?
- A. (i) and (vi)  
 B. (v) and (vi)  
 C. (i) and (iv)  
 D. (ii) and (i)

40. What is the value of  $x$  in the equation below?

$$\frac{2x + 3x - 5}{3} = 5$$

- A.  $5\frac{1}{24}$   
 B.  $1\frac{4}{5}$   
 C. 9  
 D. 4
41. A river measuring 6cm long on a map has an actual length of 24km. What is the scale used?
- A. 1: 400000  
 B. 1:4000000  
 C. 1:400  
 D. 1:4000
42. Use the correct inequality sign to complete the statement below.
- 15% of 500 \_\_\_\_\_  $\frac{1}{2}$  of 300
- A. >  
 B. <  
 C. =  
 D.  $\geq$
43. What is the shortest length of wire that can be cut into pieces measuring 9cm, or 15cm or 20cm without a remainder?
- A. 90cm  
 B. 180cm  
 C. 360cm  
 D. 720cm

44. Below is a net of a solid.



Which of the following solids can be formed when the net above is folded?

- A. Rectangular pyramid  
 B. Rectangular prism  
 C. Square pyramid  
 D. Square prism.
45. What is the value of:  $\sqrt{17.64}$  ?
- A. 4.2  
 B. 0.42  
 C. 0.48  
 D. 4.8

46. What is the value of;

$$\frac{1.33 \times 5.1}{0.19 \times 0.0017} ?$$

- A. 0.21  
 B. 21000  
 C. 2.1  
 D. 210
47. What is the value of;
- $$9(2x + 2y) - 4(2x + y)?$$
- A.  $10x + 22y$   
 B.  $26x + 22y$   
 C.  $10x + 14y$   
 D.  $22x + 26y$

48. The table below shows fare in shillings between different towns.

J					
100	K				
120	80	L			
150	110	90	M		
180	150	120	60	N	
200	170	150	100	80	O

Aswan went from town J direct to town O.

How much more money did he pay if he went back to town J via town M?

- A. Sh. 50  
 B. Sh. 250  
 C. Sh. 80  
 D. Sh. 450
49. A rectangular container measures 50cm by 60cm by 80cm. How much water in decilitres does it hold when half full?
- A. 120 dl  
 B. 1200dl  
 C. 2400dl  
 D. 12000dl
50. What is the next shape in the pattern below?

