1. What is twenty nine million two hundred and ninety nine thousand two hundred and nine written in figures?
   A. 29 209 209
   B. 29 290 209
   C. 29 299 290
   D. 29 299 209

2. What is the smallest 6-digit number that can be formed using the digits 2, 7, 3, 0, 6, 9?
   A. 230679
   B. 023679
   C. 203679
   D. 976320

3. What is the value of
   $\frac{3^2 \text{ of } 2 \div (6-3) \times 2^2 - 2}{4^2 - 5}$?
   A. 2
   B. $^{11}/_{34}$
   C. $1^{5}/_{11}$
   D. $3^{1}/_{11}$

4. What is the total value of digit 6 in the number 5368294?
   A. 6,000
   B. 600,000
   C. Sixty thousand
   D. Ten thousands

5. What is the value of
   $^{3}/_{5} \div {}^{2}/_{3} - {}^{1}/_{2} \times {}^{1}/_{13}$ of $({}^{1}/_{2} + {}^{4}/_{5})$?
   A. $^{17}/_{20}$
   B. $^{1}/_{2}$
   C. $1^{3}/_{17}$
   D. $^{19}/_{20}$

6. The following are prime factors of three numbers
   i) $2^3 \times 3$
   ii) $2^2 \times 3 \times 5$
   iii) $2^2 \times 3^2$
   Which is the largest number that can divide all these numbers without a remainder?
   A. 24
   B. 720
   C. 6
   D. 12

7. Which one of the following statements is false?
   A. A rhombus is a parallelogram
   B. All quadrilaterals have two pairs of parallel lines
   C. A parallelogram is a rectangle
   D. A square is a parallelogram

8. What is the square of $(1^{2}/_{3})^2$?
   A. $^{9}/_{25}$
   B. $7^{58}/_{81}$
   C. $2^{7}/_{9}$
   D. $4^{1}/_{6}$

9. A certain solid has 5 faces and 6 vertices. How many edges does it have?
   A. 9
   B. 8
   C. 6
   D. 12

10. After an increase of 25%, Peter now earns Sh. 72000. How much was he earning before the increase?
    A. Sh. 14,400
    B. Sh. 54,000
    C. Sh. 86,400
    D. Sh. 57,600

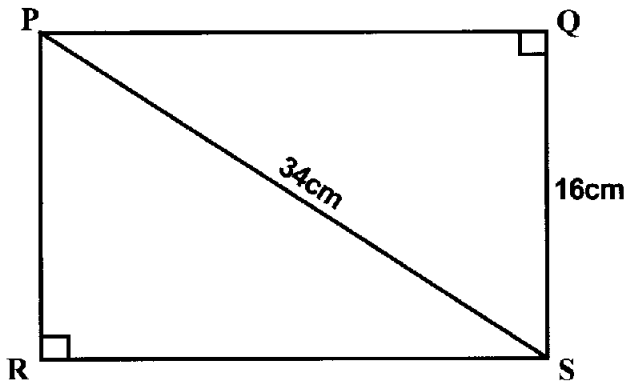
11. A rectangular tank which is 8m long and 5m high contains 120,000 litres of water. What is its width in centimetres?
    A. 300
    B. 3
    C. 30
    D. 3,000

12. What is the value of **m** in
$^1/_3m + 3(m + 4) = 22$?
A. $5^2/_5$
B. 3
C. 4
D. $9^3/_5$

13. A man had Sh. 36000. He gave $^1/_4$ of the money to his son and $^1/_5$ of the money to his daughter. The remaining money was shared equally between his two wives. How much money did each wife get?
A. Sh. 8600
B. Sh. 9000
C. Sh. 9900
D. Sh. 7200

14. Mitambo bought a T.V set by paying a deposit of Sh. 8000 and 6 equal monthly instalments of Sh. 3600 each. How much more than the marked price did he pay if the marked price was Sh. 25,000?
A. Sh. 4,600
B. Sh. 3,400
C. Sh. 29,600
D. Sh. 3,600

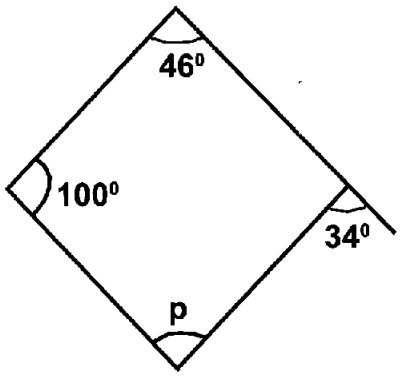
15. The figure below represents a rectangle PQRS.



What is the area of the rectangle?
A. $240cm^2$
B. $480cm^2$
C. $544cm^2$
D. $272cm^2$

16. A circular piece of paper has an area of $314cm^2$. The paper is cut into two halves. What is the perimeter of each halve?
(Use $\pi = 3.14$)
A. 62.8cm
B. 31.4cm
C. 25.7cm
D. 51.4cm

17. What is the size of angle **p** in the figure below?



A. 68^0
B. 58^0
C. 34^0
D. 112^0

18. The table below shows the number of boys and girls in each class in Karega School in upper primary. Those in class five are not given

Class	Four	Five	Six	Seven	Eight	Total
Boys	36	—	31	37	29	162
Girls	29	—	42	34	36	174

How many more girls than boys are there in class five?
A. 14
B. 5
C. 4
D. 33

19. Construct a trapezium ABCD with AB parallel to DC. AB = 10cm, BC = 5cm, CD = 4cm and angle ABC = 45^0. What is the measure of its perpedicular height?

A. 4.2cm
B. 3.7cm
C. 4.5cm
D. 5cm

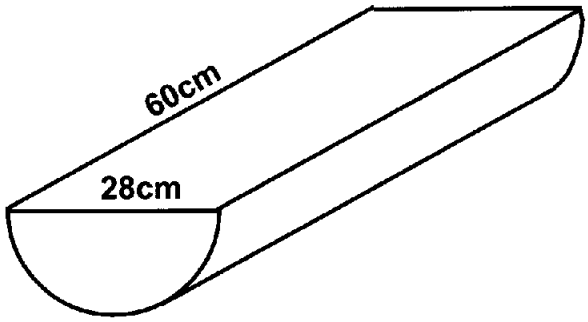
20. Which statement about triangles below is incorrect?
A. A triangle can have two obtuse angles
B. The adjacent angles in a triangle add up to 180^0
C. All angles in an equilateral triangle are acute
D. A triangle can be right angled and isosceles

21. A section of a river 7.2 km long is represented on a map by a line 12cm long. What is the scale of the map?
A. 1:600
B. 1:6000
C. 1:0.6
D. 1:60,000

22. A car dealer was left with Sh. 684,000 after paying 5% commission to an agent for the sale of a car. How much did the agent receive as commission?
A. Sh. 720,000
B. Sh. 36,000
C. Sh. 34,200
D. Sh. 649,800

23. Given that $m = 4$, $n - m = 2$ and $p = 3$, what is the value of $\frac{1}{2}mp + \frac{nm}{n} + p^2$?
A. 1
B. 16
C. 13
D. 19

24. The trough below was painted on the outside. What was the area painted?



A. $18{,}480cm^2$
B. $5896cm^2$
C. $3256cm^2$
D. $4936cm^2$

25. Njoroge walked from his home to school, 12 km away, for one hour and then ran back home in 30 min. What was his average speed for the whole journey?
A. 36 km/h
B. 18 km/h
C. 8 km/h
D. 16 km/h

26. Eliza deposited Sh. 120,000 in a bank paying compound interest at a rate of 10% p.a. After one year she withdrew Sh. 52,000. How much money did she have in the bank at the end of the second year?
A. Sh. 144,000
B. Sh. 77,000
C. Sh. 88,000
D. Sh. 145,200

27. What is the next number in the pattern below
67, 50, 37, 26, _____?
A. 15
B. 17
C. 19
D. 33

28. 12 people were to construct a house in 8 days. If two people did not turn up, how many days did it take to construct the house to the nearest whole number?

A. 2
B. 9.6
C. 9
D. 10

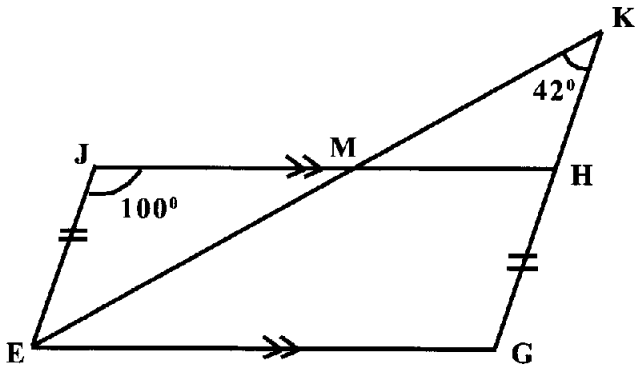
29. The table below shows a bus timetable for journeys between towns E and J

Town	Arrival	Departure
E	____	0500
F	0630	0645
G	0710	0720
H	0820	0830
I	1145	1230
J	1345	____

If the bus does not stop anywhere, at what time would the bus arrive at town J?
A. 12.25 a.m
B. 1225 hrs
C. 11.25 a.m
D. 1505 hrs

30. How many days are there between 4th Jan 2020 and 6th May 2020?
A. 124
B. 120
C. 121
D. 122

31. In the figure below, lines EG and HJ are paralle. Line EJ and GH are equal. Angle EJH = 110^0 and angle HKM = 42^0



What is the size of angle EMJ?
A. 80^0
B. 58^0
C. 42^0
D. 38^0

32. The area of a square garden is $1764m^2$. It was fenced using posts placed 6m apart. How many posts were used?
A. 294
B. 28
C. 29
D. 32

33. A train arrived at town Q at 12.05 a.m on Thursday after a 6 h 15 min journey from town P. On which day and at what time had it left town P?
A. Wednesday 1750 h
B. Thursday 6.20 a.m
C. Wednesday 5.50 a.m
D. Thursday 0550 h

34. Elisha bought a bag of pineapples containing 40 pineapples for Sh. 600. He paid Sh. 100 to a bodaboda to transport them to his kiosk. On opening, he found out that 4 pineapples were rotten and could not be sold. He however sold the remaining pineapples in groups of three for Sh. 100. How much profit did he make?
A. Sh. 560
B. Sh. 1200
C. Sh. 500
D. Sh. 600

35. A rhombus has a perimeter of 80cm. One of its diagonals measure 32cm. What is the area of the rhombus?
A. $320cm^2$
B. $384cm^2$
C. $160cm^2$
D. $192cm^2$

36. The average number of pupils in a school with 16 streams is 40. The average number of pupils in 12 of these streams is 42 pupils. What is the total number of pupils in the other 4 streams?

A. 136
B. 160
C. 168
D. 34

37. A discount of 10% was allowed on all items in a shop. Terry paid Sh. 180 for a book. How much more would she have paid if there was no discount?

A. Sh. 18
B. Sh. 200
C. Sh. 20
D. Sh. 198

38. A room measures 540cm by 420cm. What is the length of the largest square tiles that can be used to cover the floor without cutting them?

A. 40cm
B. 120cm
C. 30cm
D. 60cm

39. What is the simplest form of $\frac{x+3}{4} + \frac{2x-1}{3}$?

A. $11x + 13$
B. $\frac{11x+5}{12}$
C. $11x + 5$
D. $\frac{11x+13}{12}$

40. Which one of the following set of measurements can be used to construct a right-angled triangle?

A. 0.6cm, 0.8cm, 1.2cm
B. 1.8cm, 1.2cm, 1.4cm
C. 0.4cm, 0.7cm, 1.3cm
D. 1.2cm, 1.6cm, 2.0cm

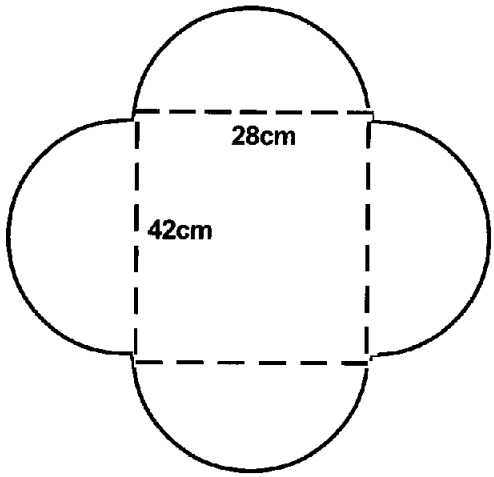
41. Caroline obtained the following marks in her end of January exam.
Maths $^{32}/_{50}$, Kisw 70%, Eng $^{18}/_{25}$, SStre $^{48}/_{60}$, Science $^{37}/_{50}$. If a pie-chart was drawn to represent this information, what angle would represent English?

A. 72^0
B. 259.2^0
C. 54^0
D. 80^0

42. A certain powder is packed into 1.25 kg packets. How many such packets will weigh two tonnes?

A. 2,500
B. 160
C. 1,600
D. 16,00

43. The design below is made up of a rectangle and four semi-circles.



What is the area of the design in cm^2?
(Take $\pi = {}^{22}/_{7}$)

A. $9184cm^2$
B. $3178cm^2$
C. $2177cm^2$
D. $2002cm^2$

44. Mkulima planted coffee bushes in rows. He planted 25 rows. Each row was 40m long. If the distance between any two bushes was $2^1/_2$m, how many coffee bushes did he plant altogether?

A. 400

B. 401

C. 16

D. 425

45. A salesman earns a basic salary of Sh. 7000. He is also paid a commission of $1^1/_2$% of the value of items he sells above Sh. 40 000. In one month, he sold 1200 items at Sh. 50 each. What was his total earning that month?

A. Sh. 7300

B. Sh. 8200

C. Sh. 7900

D. Sh. 7600

46. Karoki and Naomi shared some money in the ratio 7:4 respectively. Karoki got Sh. 450 more than Naomi. How much did Karoki get?

A. Sh. 150

B. Sh. 600

C. Sh. 1050

D. Sh. 1650

47. There were **k** children who bought t mangoes each. They threw away **m** mangoes which were rotten, then shared the remaining ones equally. How many mangoes did each child get?

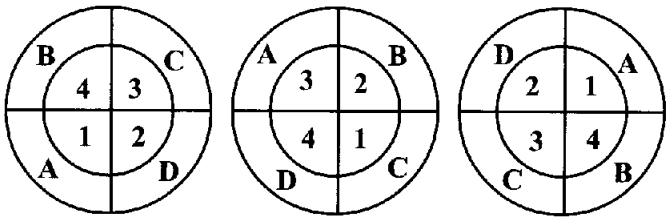
A. $\frac{kt-m}{k}$

B. $\frac{ktm}{k}$

C. $\frac{k+tm}{k}$

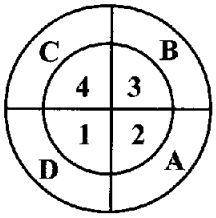
D. $\frac{kt-m}{t}$

48. The shapes below show a sequence of a pattern.

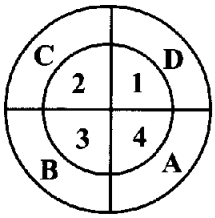


Which one of the following shapes will be the fifth in the pattern?

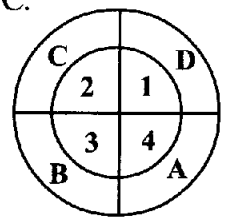
A.



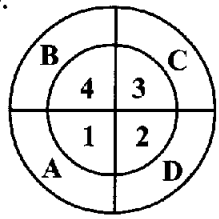
B.



C.



D.



49. Below is an extract of mobile money transfer charges in Kenya

Range (Sh)	Transaction charges (Sh)	
	Customers in Same network	Customers in other networks
0 – 100	Free	Free
101 – 500	12	17
501 – 1000	16	21
1001 – 2500	28	34
2501 – 3500	38	44
3501 – 5000	47	57

Pauline sent Sh. 2800 to her mum (same network) and another Sh. 1700 to her cousin (other network). How much did she spend altogether?

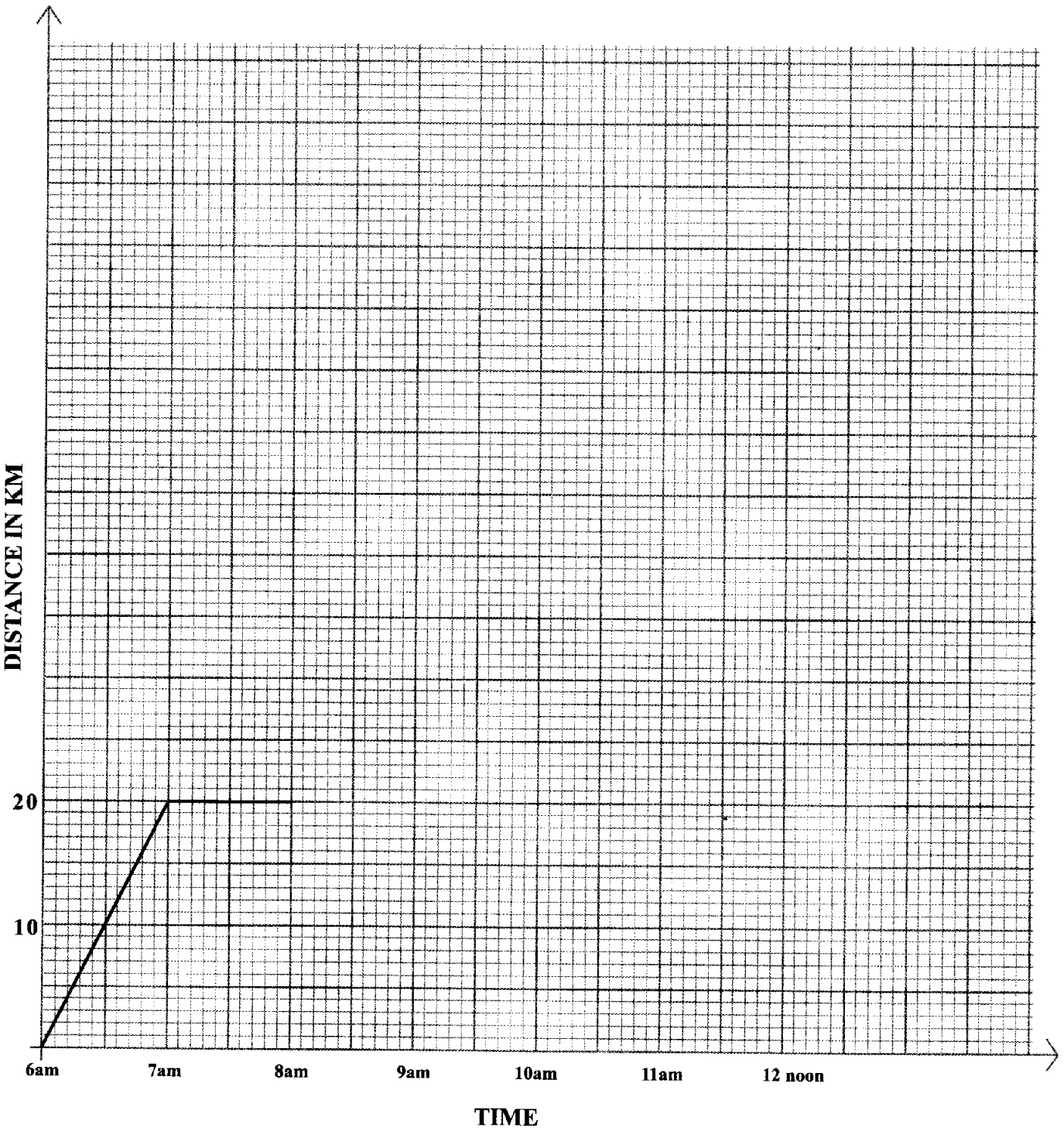
A. Sh. 4982

B. Sh. 4572

C. Sh. 72

D. Sh. 4566

50. The graph below shows part of Kamene's 80 km journey. After one hour rest, she continued at the same speed.



At what time did he complete the journey?

A. 12 noon

B. 11.30 a.m

C. 11.00 a.m

D. 12.30 p.m