

- (A) 980m² (B) 910m²
 (C) 900m² (D) 950m²
47. A man sells a radio set at a loss of 5%. Had he sold it for H250 more, he could have gained 5%. The cost price of the radio set is
 (A) H2500 (B) H2400
 (C) H2250 (D) H2100

48. A man travelled a certain distance by train at the rate of 25km/hr and walked back at the rate of 4km/hr. If the whole journey took 5hours 48minutes, the distance was
 (A) 25km (B) 30km
 (C) 20km (D) 15km
49. If a number is divided by 9, then which of the following is true?
 (A) its digital root is divisible by 9
 (B) its digital root is divisible by 3
 (C) its digital root is divisible by both 12 and 9
 (D) none of these

50. How many composite number are there less than 100?
 (A) 25 (B) 73
 (C) 74 (D) 75

SPACE FOR ROUGH WORK

27th MV (MATHEMATICS)

Time Allowed 1 hour

Maximum Marks : 100

Read the following instructions carefully before you begin to answer the questions.

- This booklet contains 50 questions in all.
- All questions are compulsory and each question carries 2 marks.
- Before you start to answer the questions you must check up this booklet and ensure that it contains all the pages 7 (Seven) and see that no page is missing or repeated. If you find any defect in this Booklet, you must replace it immediately.
- There will **NOT** be any negative marking for wrong answers.
- You are required to fill the information on the answer sheet which you will get in the examination hall by **H.B. pencil or BALL point pen(Blue or Black)**.
- Answer Sheet** and **Question Paper** will be supplied in examination hall. After the test is over, you should hand over the answer sheet to the invigilator before leaving the room.
- You should write your **Name, Roll No., School name** carefully on the space provided in the answer sheet. Otherwise you will be awarded **ZERO** mark.
- If you wish to change your answer, **ERASE** completely the darkened circle by using an **ERASER** and then blacken the new circle. If not erased completely, smudges will be left on the erased circle and the question will be read as having two answers and will be ignored for giving any credit. (only for pencil users)
- Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
- You are not allowed to leave the examination hall until you are advised to do so by the invigilator.

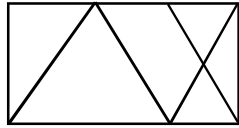
1. Replace the * in the number 4*56 so as to make it divisible by 33.
(A) 3 (B) 4
(C) 5 (D) 6
2. 1 million =
(A) 1 Lakh (B) 10 Lakhs
(C) 100 Lakhs (D) 10 Crores
3. The least number which when increased by 8 is exactly divisible by 24, 32 and 36 is
(A) 288 (B) 576
(C) 560 (D) 280
4. $36 - [18 - \{14 - (15 - 4 \div 2 \times 2)\}] =$
(A) 20 (B) 21
(C) 22 (D) 18
5. A chair cost H452 and a table costs H1750. What will be the cost of 15 chairs and 30 tables?
(A) H6780 (B) H52500
(C) H39810 (D) H59280
6. The sum of two numbers is eight times their difference. If the smaller number is 42, the other number is
(A) 45 (B) 54
(C) 35 (D) 42
7. The average of first ten prime numbers is
(A) 10 (B) 12.5
(C) 12.9 (D) 13.3
8. Which of the following statement is not true?
(A) The product of two fractional numbers is a fractional number.
(B) When a fractional number is multiplied by 1, the product is the reciprocal of the fractional number.
(C) Reciprocal of zero does not exist
(D) $\frac{3}{5}$ and $\frac{12}{20}$ are equivalent fractions
9. Average age of six sons of a family is 8 years. Average age of the sons together with their parents is 22 years. If the age of the father is 68, the age of mother is
(A) 44 (B) 52
(C) 60 (D) 68
10. Which of the following is in ascending order?

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- (D) one (units) quantity from the given condition
39. The given are the measures of the angles of the triangles
i) $30^\circ, 60^\circ, 90^\circ$ ii) $120^\circ, 30^\circ, 30^\circ$
iii) $60^\circ, 60^\circ, 60^\circ$ iv) $60^\circ, 20^\circ, 100^\circ$
Which of the following given are obtuse angle triangle?
(A) i & ii (B) only iii
(C) ii & iv (D) i, ii & iii
40. Which of the following statement is TRUE?
(A) Every supplementary angles form a linear pair
(B) If an angle is acute, its supplement also acute
(C) Two parallel lines have a common point known as point of intersection
(D) None of these
41. 35% of 30 = 25% of $(x+1)$, What is the value of x?
(A) 28 (B) 41
(C) 42 (D) 32
42. If the cost of 12 tables is equal to the selling price of 16 tables, the loss percent is
(A) 15% (B) 20%
(C) 25% (D) 30%
43. Obtuse angle triangle must have
(A) four obtuse angles
(B) three obtuse angles
(C) two obtuse angles
(D) one obtuse angle
44. The cost of television is H36,000, If the cost is increased to H40,000. What is the percentage increased?
(A) $11\frac{1}{9}\%$ (B) $9\frac{1}{11}\%$
(C) $10\frac{1}{11}\%$ (D) $11\frac{9}{10}\%$
45. 25.3×0.154 is equal to
(A) 2.53×0.00154
(B) 253×1.54
(C) 253×0.0154
(D) 2.53×0.00154
46. The perimeter of a rectangular field is 126m. If the length of the field is 35m, the area of the field is

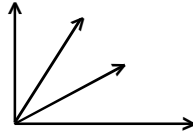
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31. How many angles in the rectangle are less than 90° ?



- (A) 12 (B) 13
(C) 14 (D) 15
32. If the sum of two adjacent angle is 180° , then the two angles are said to be
(A) Linear pair angle
(B) Vertically opposite angle
(C) Corresponding angle
(D) Co-interior angle
33. The product of two co-prime numbers is 117. Their H.C.F. and L.C.M. should be respectively .
(A) 7 & 1 (B) 1 & 117
(C) 13 & 9 (D) 117 & 1
34. How many chords can be drawn in a circle?
(A) 0 (B) 1
(C) 100 (D) infinite

35. The number of angles in the figure is



- (A) 3 (B) 4
(C) 5 (D) 6
36. Measure two angles between hour hand and minute hand of a clock at 9^oo clock are
(A) 60° , 300° (B) 270° , 90°
(C) 75° , 285° (D) 30° , 330°
37. The pair of two numbers 71 & 73 are
(A) Twin prime
(B) Co prime
(C) Prime numbers
(D) All the above
38. In unitary method, we first find the value of
(A) five (units) quantities from the given condition
(B) three (units) quantities from the given condition
(C) two (units) quantities from the given condition

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(A) $3\frac{1}{5} < 5\frac{3}{4} < 3\frac{1}{6} < 1\frac{2}{15}$

(B) $1\frac{2}{15} < 3\frac{1}{6} < 3\frac{1}{5} < 5\frac{3}{4}$

(C) $1\frac{2}{15} < 3\frac{1}{5} < 3\frac{1}{6} < 5\frac{3}{4}$

(D) $1\frac{2}{15} < 5\frac{3}{4} < 3\frac{1}{5} < 3\frac{1}{6}$

11. 16 men can build a wall in 56 hours. How many men will be required to do the same work in 32 hours?
(A) 28 men (B) 30 men
(C) 25 men (D) 26 men
12. A tailor has 37.5 metres of cloth and he has to make 8 pieces out of a metre of cloth. How many pieces can he make out of this cloth?
(A) 320 (B) 360
(C) 300 (D) 250
13. Simplify :

$$8\frac{1}{2} - \left[3\frac{1}{4} \div \left\{ 1\frac{1}{4} - \frac{1}{2} \left(1\frac{1}{2} - \frac{1}{3} - \frac{1}{6} \right) \right\} \right]$$

(A) $4\frac{1}{2}$ (B) $4\frac{1}{6}$

(C) $9\frac{1}{2}$ (D) $7\frac{1}{2}$

14. What number must be added to 43879 to make it equal to the sum of 29573 and 67412?
(A) 59146 (B) 15267
(C) 53106 (D) 69685
15. Consider the statement :
i) The H.C.F. is a factor of L.C.M.
ii) If one number is a multiple of the other, the multiple is the L.C.M. of the two numbers.
iii) If the numbers are co-prime, their H.C.F. is the product of the two numbers.
Which of the following statement is/ are true?
(A) i) only (B) ii) only
(C) i) & ii) (D) i), ii) & iii)
16. In an examination 50621 candidates could get through. Out of these,

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- 19753 passed in first division and 23860 passed in second division. How many candidates passed in third division?
- (A) 7008 (B) 7000
(C) 7200 (D) 7010
17. Sanathoi bought paper sheets for H7200 and spend H200 on transport. Paying H600, he had 330 boxes made which he sold at H28 each. His profit percentage is
- (A) 15.5 (B) 40
(C) 60 (D) none of these
18. Consider the traditional but non standard units of area used in the measurement of land holdings in the valley of Manipur.
- i) 1 Pari = 2 Louraks
ii) 1 Sangam = 2 Lousens
iii) 1 Lourak = 2 Sangams
iv) 1 Loukhai = 2 Loushens
- Which of the following is/are not TRUE?
- (A) i) & II (B) ii) & iii)
(C) ii) only (D) iv) only
19. If A is x% of C and B is y% of C then A =
- (A) $\frac{y}{x}$ X 100% of B
(B) $\frac{x}{y}$ X 100% of C
(C) $\frac{x}{y}$ X 100% of B
(D) $\frac{y}{x}$ X 100% of C
20. When 52416 is divided by 312, the quotient is 168. What will be the quotient when 52.416 is divided by 0.0168?
- (A) 312 (B) 3120
(C) 31.2 (D) 3.12
21. When a commodity is sold for H34.80, there is a loss of 25%. What is the cost price of the commodity?
- (A) H46.40 (B) H26.10
(C) H0.43 (D) H43.20

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22. When 0.36 is written in simplest fractional forms, the sum of the numerator and the denominator is
- (A) 15 (B) 34
(C) 114 (D) 135
23. If a and b are odd numbers, then which of the following is even?
- (A) a + b (B) a + b + 1
(C) ab (D) ab + 2
24. A water pump can draw 350 l of water in 15 min. How many litres of water can the pump in 2 hours?
- (A) 5250 l (B) 1400 l
(C) 2800 l (D) 2250 l
25. Which of the following is TRUE?
- (A) 0°C corresponds to 37° F
(B) 100°C corresponds to 217° F
(C) 40°C corresponds to 104° F
(D) 59°F corresponds to 14°C
26. A person crosses a 600 m long street in 5 min. What is his speed in Km/hr?
- (A) 3.6 (B) 7.2
(C) 8.4 (D) 10
27. What percent of a day is 3 hours?
- (A) $12\frac{1}{2}\%$ (B) $16\frac{2}{3}\%$
(C) $18\frac{2}{3}\%$ (D) $22\frac{1}{2}\%$
28. A rectangular block of dimension 6cm X 12cm X 15cm is cut into number of equal cubes of edges 2cm. The number of cubes will be
- (A) 1080 (B) 108
(C) 1350 (D) 135
29. A city bus leaves Imphal for Moreh at 7:10am in uniform speed of 45km/hr. It takes 4hrs 20min to reach Moreh. At what time does the bus reach Moreh.
- (A) 11.30pm (B) 11.30am
(C) 12.30 am (D) 11.10am
30. How many bricks, each measuring 25cm X 11.25cm X 6cm, will be needed to build a wall of 8m X 6m X 22.5cm?
- (A) 5600 (B) 6000
(C) 6400 (D) 8120

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