

Ts16M

Tenkasi District
Summative Assessment - December 2023

6124

Standard 6

MATHS

Time: 2.00 Hrs.

Marks: 60

I. Choose the correct answer:

5×1=5

- 1) The only even prime number is
a) 4 b) 6 c) 2 d) 0
- 2) 9m 4cm is equal to
a) 94 cm b) 904 cm c) 9.4 cm d) 0.94 cm
- 3) Discount = M.P - _____
a) Profit b) S.P c) Loss d) C.P
- 4) An equilateral triangle is
a) an obtuse angled triangle b) a right angled triangle
c) an acute angled triangle d) a scalene triangle
- 5) 2 days = _____ hours.
a) 38 b) 48 c) 28 d) 40

II. Fill in the blanks:

5×1=5

- 6) The numbers 29 and _____ are twin primes.
- 7) The HCF of 45 and 75 is _____.
- 8) 50 kg ÷ 100 g = _____.
- 9) The sum of three angles of a triangle is _____.
- 10) The HCF of two successive even numbers is _____.

III. Say True or False:

5×1=5

- 11) The HCF of two numbers is always a factor of their LCM.
- 12) If a number is divisible by 6, then it must be divisible by 3.
- 13) Meena bought 250 ml of buttermilk which is equal to 2.5 l.
- 14) Every natural number is either prime or composite.
- 15) There is no profit or loss when C.P > S.P

IV. Match the following:

5×1=5

- 16) 11 : 50 - Scalene triangle
- 17) 02 : 20 - 10 minutes to 12
- 18) All sides are equal - Right angled triangle
- 19) One right angle - 20 minutes past 2
- 20) No sides are equal - Equilateral triangle

V. Answer any ten of the following questions:

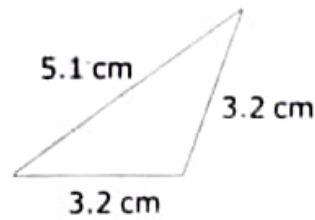
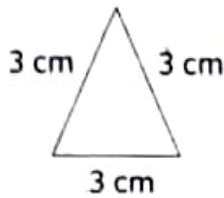
10×2=20

- 21) Write the smallest and the biggest three digit composite number.
- 22) Find the prime factorisation of 128 by factor tree method.
- 23) Find the HCF of 18, 24 using prime factorisation method.
- 24) Convert 4 km 300 m into m.
- 25) Convert 38 months into years.
- 26) Rani bought a set of bangles for ₹ 310. Her neighbour liked it most. So Rani sold it to her for ₹ 325. Find the profit or loss to Rani.
- 27) Can a triangle be formed with the following sides? If yes name the type of triangle 10 cm, 8 cm, 5 cm.
- 28) Pari bought a motor cycle for ₹ 55,000 and he gained ₹ 5,500 on selling the same. What is the selling price of the motor cycle?

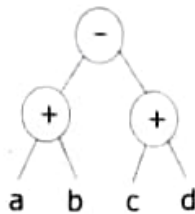
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- 29) The average rainfall of TamilNadu is 988 mm. Convert it into cm.
 30) Classify the given triangles based on its sides as scalene, isosceles or equilateral.

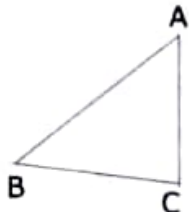


- 31) The sum of any three odd natural numbers is odd. Justify the statement with an example.
 32) Convert the following numerical expressions into Tree diagrams $8 + (6 \times 2)$.
 33) Convert Tree diagrams into algebraic expressions.



VI. Answer any five of the following questions:

5×3=15

- 34) Find the LCM of 30, 40, 60 using prime factorization method.
 35) Saritha bought 6m and 40 cm of cloth for herself and 3m 80 cm of cloth for her sister. What was the total length of the cloth bought by her?
 36) Compare and put $>$ or $<$ or $=$ in the following:
 i) $800\text{g} + 150\text{g}$ 1 kg
 ii) $600\text{ ml} + 400\text{ ml}$ 1 l
 iii) 55g 550 mg
 37) Change the following into 24 hours format:
 a) 3.15 am b) 12.35 pm c) 12.00 noon
 38) Valarmathi sold her pearl set for ₹ 30,000 at profit of ₹ 5,000. Find the cost price of the pearl set.
 39) In $\triangle ABC$ name
 i) Three sides _____
 ii) Three angles $\angle A$, $\angle B$, $\angle C$
 iii) Three vertices _____

 40) Can a triangle be formed with the following angles? If yes name the type of triangle?
 (i) $90^\circ, 55^\circ, 35^\circ$ (ii) $60^\circ, 40^\circ, 42^\circ$
 41) Convert the following numerical expressions into Tree diagrams.
 $(3 \times 5) - (4 \div 2)$

VII. Answer any one of the following question:

1×5=5

- 42) Draw a line segment $AB = 7\text{ cm}$ and mark a point P on it. Draw a line perpendicular to the given line segment at P.
 43) Draw a line segment measuring 7.8 cm. Mark a point B above it at a distance 5 cm. Through B draw a line parallel to the given line segment.