VNR6M

Virudhunagar District

Summative Assessment - December 2024

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Standard 6

MATHS

Time: 2.00 Hrs.   Marks: 60

I. Choose the best answer: **5×1=5**

1) The difference between two successive odd number is
   a) 1   b) 2   c) 3   d) 0
2) 2½ years is equal to _____ months.
   a) 25   b) 30   c) 24   d) 5
3) Discount is subtracted from _____ to get S.P.
   a) M.P   b) C.P   c) Loss   d) Profit
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) Which of the following pairs is co-prime?
   a) 51, 63   b) 52, 91   c) 71, 81   d) 81, 99

II. Fill in the blanks: **5×1=5**

6) The HCF of two successive even numbers is _____.
7) 450 mℓ × 5 = _____ ℓ _____ mℓ.
8) 2 days = _____ hours.
9) Discount = M.P − _____.
10) In an isoceless triangle _____ angles are equal.

III. Match it: **5×1=5**

11) 600 mℓ + 400 mℓ =   10 minutes to 12
12) 11.50 hours   =   Isosceles triangle
13) 21 : 10 hours   =   1ℓ
14) Two sides of equal length   =   Right angled triangle
15) One right angle   =   9 : 10 p.m

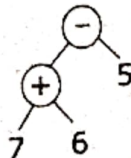**IV. True or False:**   **5×1=5**

16) Every natural number is either prime or composite.
17) The HCF of 17 and 18 is 1.
18) Gayathri bought 1 kg of birthday cake. She shared 450g with her friends. The weight of cake remaining is 650g.
19) 'Overhead expenses' is always included in C.P.
20) A triangle be formed with 7 cm, 7 cm and 7 cm as its sides.

V. Answer any six questions: **6×2=12**

21) Do the prime factorisation of 144 by division method.
22) Find the ratio of the HCF and the LCM of the numbers 18 and 30.
23) Convert 526 mℓ into ℓ.
24) Subtract 10 hours 20 minutes 35 seconds from 12 hours 18 minutes 40 seconds.
25) 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.
26) Can a triangle be formed with 8 cm, 3 cm and 4 cm as it sides?
27) Can a triangle be formed with the following angles? If yes, name the type of triangle 100°, 50°, 30°.
28) Convert the following Tree diagrams into numerical expressions.

29) If Guna marks his product to be sold for ₹ 325 and gives a discount of ₹ 30, then find the S.P.

VI. Answer any six questions: **6×3=18**

30) Find A as required
    i)   The greatest 2 digit number 9A is divisible by 2.
    ii) The least number 567A is divisible by 3.
    iii) The greatest 3 digit number 9A6 is divisible by 6.

31) There are four mobile phones in a house. At 5 a.m all the four mobile phones will ring together. There after, the first one rings every 15 minutes, the second one rings every 20 minutes, the third one rings every 25 minutes and the fourth one rings every 30 minutes. At what time, will the four mobile phones ring together gain?

32) Priya bought 22½ kg of onion, Krishna bought 18¾ kg of onion and Sethu bought 9 kg 250g of onion. What is the total weight of onion did they buy?

33) The arrival and departure timings of the Chennai - Trichy express are given below.

Station	Arrival	Departure
Chennai - Egmore	-	20 : 30
Chengalpattu	21 : 30	21 : 32
Villupuram Junction	23 : 15	23 : 25
Virudhachalam Junction	00 : 07	00 : 10
Trichy	04 : 30	

i) At what time does the train depart from Chennai Egmore to arrive at Trichy?
ii) How many halts are there in between Chennai and Trichy?
iii) Find the total journey time of the train from Chennai to Trichy?

34) Ramya purchases some make-up items and gets the following bill.

Cash Bill

SHANTHI FANCY STORE

Bill No : 100   Date : 15.05.2018

Sl.No.	Items	Rate (in ₹)	Quantity	Amount (in ₹)
1.	Hair clip	15 each	6	90
2.	Hair pin	10 each	4	40
3.	Ribbon	12 perm	3	36
4.	Handkerchief	25 each	2	50
	Total			216

Observe the bill and answer the following questions.
i) What is the bill number?   ii) Mention the date of the bill.
iii) What is the total cost of the ribbon?

35) A man buys a chair for ₹ 1,500. He wants to sell it at a profit of ₹ 250 after making a discount of ₹ 100. What is the M.P of the chair?

36) Two angles of the triangles are given. Find the third angle: 50°, 90°

37) Using the given information, write the type of triangle in the table given below.

S.No.	∠1	∠2	∠3	Type of triangle based on angles	Type of triangle based on sides
(i)	60°	40°	80°		
(ii)	50°	50°	80°		
(iii)	45°	45°	90°		

38) Convert the following numerical expressions into Tree diagrams:
$[(6+4) \times 7] \div [2 \times (10-5)]$

VII. Answer any two questions: 2×5=10

39) Draw a line segment AB = 7 cm and mark a point P on it. Draw a line perpendicular to the given line segment at P.

40) Draw a line segment AB = 6.5 cm and mark a point M above it. Through M draw a line parallel to AB.

41) Draw a line segment PQ = 12 cm. Mark two points M, N at a distance of 5 cm above the line segment PQ. Through M and N draw a line parallel to PQ.

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