## TVL7M

### Tirunelveli District Summative Assessment, September - 2024



# Standard 7

MATHS Marks: 60 Time: 2.00 Hours 5×1=5 Choose the correct answer: 1) (-8)+10+(-2)=c) 0 d) 20 a) 2 2) The area of a parallelogram whose base 10 m and height 7 m is d) 10 sq.m b) 35 sq.m c) 7 sq.m a) 70 sq.m 3) The numerical co-efficient of -7mn is \_ d) -p b) -7 c) p a) 7 4) When we subtract 'a' from '-a' we get \_\_\_\_ d) -ab) 2a a) 0 5) The sum of all angles at a point is d) 0° b) 180° 5×1=5 II. Fill in the blanks 6)  $\times$  75 = 0 7) If the cost of 8 apples is Rs.56 then the cost of 12 apples is \_ 8) A tetromino is a shape obtained by \_\_\_\_\_ squares together. 9) In the expression 25m+14n, the type of the terms are \_\_\_\_\_ terms. 10) A line which intersects two or more lines in different points is known as 5×1=5 III. Say True or False 11) The additive inverse of (-32) is (-32)12) 2Pq and -7qP are like terms. 13) In a rhombus all the sides are equal. 14) Every algebraic expression is an equation. 15) Two angles are called supplementary angles if their sum is 90° IV. Match the following 5×1=5 16)  $45 \div (-9)$ 17) Area of trapezium - Linear Pair 18) 12 more then  $x = \frac{1}{2} \times h \times (a+b)$  sq.units. 19) 40°, 140° x+12 20) Additive inverse

#### V. Answer any 10 questions of the following:

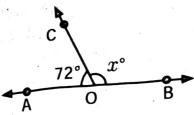
10×2=20

- 21) Add: (-3) and (-5) using numberline.
- 22) Find the product of:  $(-10) \times 12 \times (-9)$
- 23) One of the sides and the corresponding height of the parallelogram are 16 cm and 6 cm respectively. Find the area of the parallelogram.
- 24) Chitra has Rs.150. She wanted to buy a bag which costs Rs.275. How much money does she need to borrow from her friend?
- 25) Find the area of a trapezium whose parallel sides are 24 cm and 20 cm and the distance between them is 15 cm.
- 26) Subtract: 13x+12y-5 from 27x+5y-43.
- 27) Identify the like terms among the following: 7x, 5y, - 8x, 12y, 6z, z, -12, -9y, 11z

#### TVL7M

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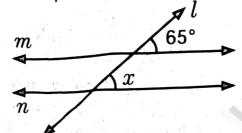
- 28) Solve: 12x+10 = 70
- 29) If x = 3, y = 2 find the value of 3x + 2y 5
- 30) Give that AB is a straight line. Calculate the value of x°.



31) If 6 children shared 24 pencils equally then how many pencils are required

for 18 children?

32) Find the measure of angle x in each of the following figure:



33) The area of a rhombus is 100 sq.cm and length of one of its diagonals is 8 cm. Find the length of the other diagonal.

#### VI. Answer any 5 of the following:

5×3=15

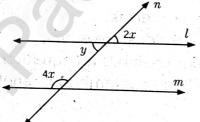
34) Check the following for equality and if they are equal mention the property.  $[(-6)\times4]\times(-3)=(-6)\times[4\times(-3)]$ 

35) Simplify: (3x+2y-z) + (6x-5y+7z) - (14x+7y-6z)

36) A ground is in the shape parallelogram. The height of parallelogram is 14 m, and the corresponding base is 8 m longer then its height. Find the cost of leveling the ground at the rate of Rs.15 per sq.m.

37) A postman can sort out 738 letters in 6 hours. How many letters can be sorted in 9 hours?

38) If  $\ell$  is parallel to m. Find the measures of x and y in the figure.



- 39) Find two consective natural numbers whose sum if 75.
- 40) If the three angles at a point are in the ratio 1:4:7, find the value of each angle?
- 41) It takes 120 minutes to weed a garden with 6 gardeners. It the same work is to be done in 30 minutes. How many more gardeners are needed?

# VII. Answer any one of the following:

1×5=5

42) Construct a perpendicular bisector of the linesegment AB = 7.5 cm.

(OR)

Construct bisector of the ∠ABC with the measure 80°

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