



PANCHSHEEL PUBLIC SCHOOL

10+2 Senior Secondary School (Affiliated & Recognized by CBSE)

Jaitpur, Badarpur, New Delhi-44

Sample paper Annual-Term Examination-2022-23

Time: 2:30hrs

Subject: Mathematics

Class: VIII

M. Marks: 50

Name:

Roll No:

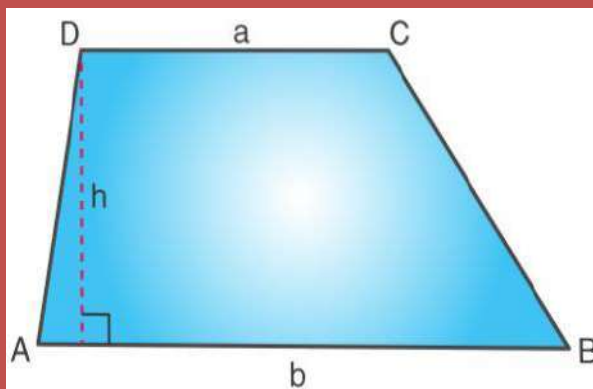
Section:

Date:

Q1) Fill in the blanks:-

[1x10=10]

- (i) The value of 3^4 is-----
- (ii) An algebraic expression which has three terms are called _____.
- (iii) _____ is the process of finding factors of a given expression.
- (iv) Speed \times time = _____
- (v) A cube is a solid formed by _____ square faces.
- (vi) If $5x - 2(6+x) = 15$, then $x =$ _____
- (vii) Liquid and gases are measured by _____.
- (viii) The point (2,5) lies in _____ quadrant.
- (ix) The co-ordinate Axis divide the plane in _____ quadrants.
- (x) Perpendiculars drawn from the vertices of a quadrilateral on diagonal are called _____.



Q2) Choose the correct alternative

[1x 5 = 5]

- (1) In 3^4 , base is _____
 - (a) 3
 - (b) 4
 - (c) 7
- (2) Which of the following points has its abscissa zero ?
 - (a) (3,-2)
 - (b) (0,5)
 - (c) (-3,0)
- (3) If x and y vary inversely, then xy is _____.
 - (a) Variable
 - (b) Constant
 - (c) Varies
- (4) The value of $(537)^2 - (536)^2 =$ _____
 - (a) 12436
 - (b) 538

(c) 1073

(5) The structures having a definite shape are called _____.

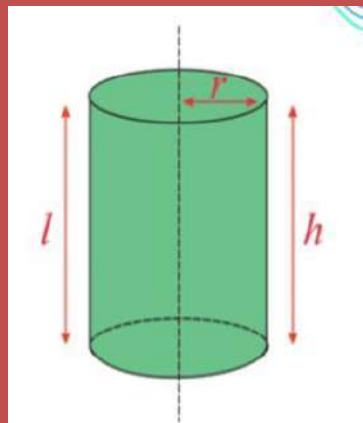
- (a) Gases
- (b) Solids
- (c) Liquids



Q3) State whether the following statements are true or false.

[1 x 5 =5]

- (1) If $2^\circ = 6^\circ$ implies that $2=6$.
- (2) Square is a special type of rhombus.
- (3) The y-axis is a horizontal line
- (4) The abscissa of point (0,5) is 5.
- (5) If the radius and height of the cylinder are respectively 'r' and 'h', the its total surface is $2r^2h$.



Q4) Solve the following :-

[2 x 5 =10]

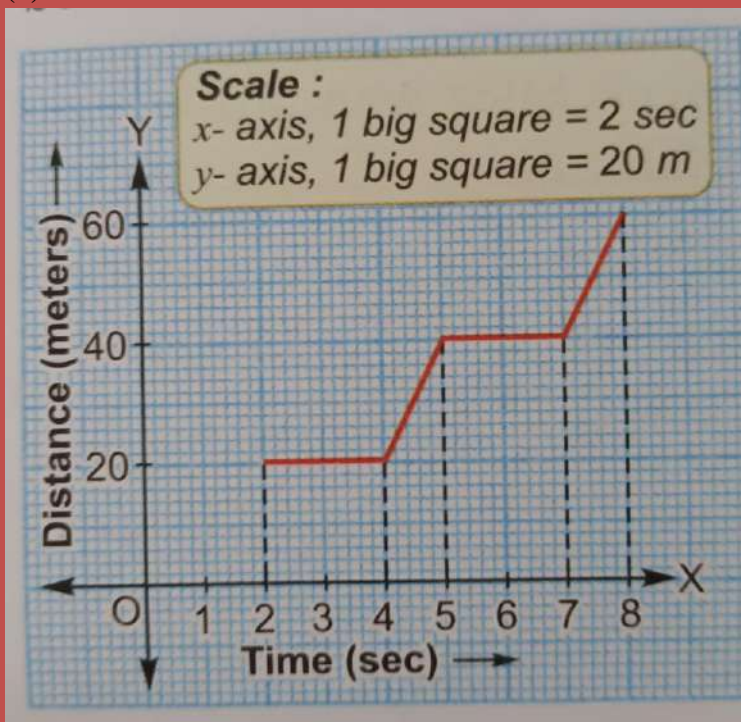
- (1) Simplify: $(7^5 \div 7^2) \times 3^3$
- (2) Find the number such that when it is doubled and 11 is added to it, the result is 27.

- (3) Find : $(x+y)(x+yz)$
 (4) Factorise : $x^2+12x+32$
 (5) Solve the following equation :
 $8x-4=3x+11$

Q5) Solve the following :-

[3x4=12]

- (1) A and B can do a piece of work in 8 days and B alone can do it in 12 days. In how many days A do it alone.
 (2) A rectangular diesel tanker is 200 cm long ,20 cm wide and 4 cm deep .How much litres of diesel can it hold?
 (3) A contractor under took a contract to complete a part of a stadium in 9 months with a work force of 560 men later on it was required to complete the job in 7 months .Find the extra men would he employee.
 (4) By observing the graph given below,find the average speed:
 (a) between 4 sec and 5 sec
 (b) between 4 sec and 5 sec



Q6) Solve the following :-

[4x2=8]

- (1) Draw the graph between circumference of circle and its radius.

(2) Find the coordinates of the mentioned points in the graph:

