

Home work For Holidays Class - VIII Maths

Note:- Solve The all Questions in a Separate Notebook.

Q1 Write and Learn definition for following:-

- (i) Rational Number (ii) Prime Number (iii) Whole Number
(iv) Integer Number

Q2 Simplify That:-

(i) $\frac{3}{8} \div \left(\frac{-51}{24} \div \frac{17}{12} \right)$ (ii) $\left(-\frac{8}{9} \times \frac{1}{-5} \right) + \left(-\frac{8}{9} \times \frac{-7}{11} \right)$

Q3 Find The value of x :-

(i) $3^{2x+1} \div 9 = 27$ (ii) $81^{-2} \div 729^{1-x} = 9^{2x}$

Q4 Find The Square Root for the given Number -

- (i) 7056 (ii) 0.0009 (iv) 9801

Q5 The Perimeter of a Triangle is $7P^2 - 8P + 9$ and two of its sides are $2P^2 - P + 1$ and $11P^2 - 3P + 5$. Find the third side of the Triangle.

Q6 Divide ~~These~~ and verify These -

(i) $(6P^3 + 5P^2 + 4) \div (2P + 1)$ (ii) $(x^4 - 3x^3 - 13x^2 + 12x + 1) \div (x^2 - x)$

Q7 Find The value of x :-

(i) $\frac{7x+14}{3} - \frac{17-3x}{5} = 6x - \frac{4x+2}{3} - 5$ (ii) $\frac{2x+3}{2x-1} = \frac{3x-1}{3x+1}$

Q8 The Ratio between the length and breadth of a rectangular field is 1:3. Its area is $\frac{3}{4}$ hectares. Find the Perimeter of Rectangle.

Q-9 A cycle merchant allows 25% discount on the marked price of the cycle cycles, and still makes a profit of 20%. If he gains ₹ 360 over the sale of one cycle, find the marked price of the cycle.

Q-10 A compound site is in the shape of a ~~the~~ convex quadrilateral. The sides of the compound form two right angles. The third interior angle measures 20° less than the fourth angle. Find the measure of all interior angles.

Q-11 Construct a trapezium ABCD when one of the parallel sides AB = 6 cm, height = 3.5 cm, BC = 4 cm and AD = 4.7 cm.

Q-12 The area of a trapezium is 385 cm². Its parallel sides are in the ratio 8:4 and the perpendicular distance between them is 11 cm. Find its sides.

Q-13 In a shower, 5 cm of rain falls. Find the volume of water that falls on 2 hectares of land.

Q-14 The dimensions of a brick are 24 cm x 12 cm x 8 cm. How many bricks will be required to build a wall 24 m long, 8 m high and 60 cm thick, if 10% of the wall is filled with mortar.

Q-15 Draw a pie chart for the percent of money spent on various types of books by a library in one year.

Type of book	Fiction	Classics	Sports	Biography	Magazine	Others
%	20%	15%	10%	12.5%	22.5%	20%