B.M. BHARTI MODEL SCHOOL



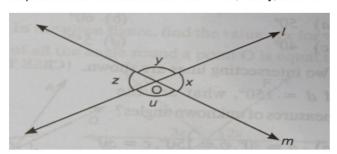
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Winter Break Holiday Homework

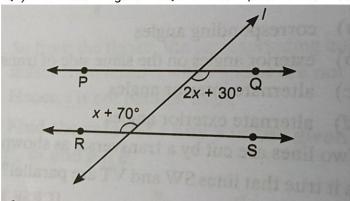
CLASS-IX

SUBJECT- Mathematics

- Q1). Simplify $6 4\sqrt{3}/6 + 4\sqrt{3}$ by rationalising the denominator.
- Q2). Find the value of a and b, if $\sqrt{3} 1/\sqrt{3} + 1 = a + b\sqrt{3}$
- Q3) Let A and B are the remainders when polynomial $f(x) = 4x^3 + 3x^2 + 12ax 5$ and $g(x) = 2x^3 + ax^2 6x 2$ are (x-2) respectely .if 3A + B 28 = 0, find the value of a .
- Q4) If $x^{51} + 51$ is divided by x + 1, then find the remainder.
- Q5) write 3x + 2y = 18 in the form of y = mx + c .find the value of m and c .Is (4,3) lies on this linear equations.
- Q6) lines I and m intersect at 0 .If = 45°, find y,z and u.



Q7) In the figure PQ II RS ,and I is transversal,than what will be the value of x'



- Q8) A chord of a circle is equal to the radius of the circle.find the angle subtended by the chord at point of minor arc
- Q9) find the area of a triangle whose perimeter is 180 cm and its two sides are 80cm and 18cm.calculate the altitude of triangle corresponding to its shortest side.

Q10) The diameter of a sphere is decreased by 25% .find its new volume.