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Given article text here Math Tutors / Worksheet Properties Of Rectangles Worksheets Subjects & Topics: A rectangle has congruent sides and diagonal lengths. Children learn about rectangles in grade school and often need help getting the concept. Using properties of rectangles worksheet, you can help your child understand rectangles better. Benefits of using properties of rectangle worksheet Rectangles properties worksheet has many benefits for teachers, students, and parents. Here are some of these benefits: It helps kids recognize rectangles in real life Kids should be able to recognize the rectangle everywhere they go. Using the properties of rectangle worksheet, kids can learn how to see the shape in everyday objects. It helps kids solve problems around rectangles A rectangle properties worksheet explains the idea of a rectangle to the minutest form. Kids can solve these problems independently without help when they often practice using the properties of rectangles worksheet answers. Problem 15: In a rectangle, the length of the diagonal is given as 36 cm. We need to find the values of x and y. Solution: The diagonals of a rectangle are equal in length and bisect each other at right angles. Therefore, we can use the Pythagorean theorem to relate the length of the diagonal (d) to the lengths of the sides (x and y): $d^2 = x^2 + y^2$ $36^2 = x^2 + y^2$ Since x and y are the dimensions of the rectangle, they must be positive. Problem 16: In rectangle ABCD, the length of AC is given as x + 8, AB is given as x + 7, and AD is given as x. We need to find the value of x and the lengths of AC, AB, and AD. Solution: Since opposite sides of a rectangle are equal in length, we can set up the following equations: $AC = x + 8$ $AB = x + 7$ $AD = x$ We are also given that $BD = 205$ cm. Using the Pythagorean theorem for triangle ABD: $AD^2 + BD^2 = AB^2$ $x^2 + 205^2 = (x + 7)^2$ Simplifying and solving for x, we get: $x = 5$ cm Now that we have the value of x, we can find the lengths of AC, AB, and AD: $AC = x + 8 = 5 + 8 = 13$ cm $AB = x + 7 = 5 + 7 = 12$ cm $AD = x = 5$ cm

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