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By Elaine Marciano the last update on March 20, 2020 Knowing the area of a flat geometric shape means knowing the measure of the surface of the shape, that is the space occupied by it. Below is a list of 10 decided exercises on a flat figure area. The list of flat curly exercises Exercise 1 Calculate the area of the square, which has a perimeter equal to 24 cm. Exercise 2 Calculate the area of the rectangle, the base of which is 1800 centimeters, and the height of 9 meters. Exercise 3 Calculate the area of the flowerbed in the form of a ram, which has a large diagonal size of 10 meters and a smaller diagonal size of 5 meters. Exercise 4 What is the triangle area measuring 30 cm and the height equal to the base dimension area? Exercise 5 With paint you can draw 10 m² of walls. Need to buy how many sides of the paint to paint the entire wall, knowing that it is 20 meters long and 2.8 meters high? Exercise 6 In a round square, the distance from the center of the square to the end of the square is 15.7 meters. What is the total area of this area? Exercise 7 Planning boxes are 17 cm long, 5 cm wide and 24 cm tall shown in the picture below. How much cardboard do I need to make a box with these sizes? A flat box. Exercise 8 How many square meters of tiles is required to cover the wall with the dimensions shown in the picture below, and which has a window that occupies a space of 2 m²? Exercise 9 (Saresp) Picture shows the land plan, showing some measures. What is the area of this land? a) 84 m² b) 160 m² c) 300 m² g) 352 m² Exercise 10 (TJ SP 2014 - Vunesp). In the SQUARE ABCD, AREA 169 cm² was drawn, as shown in the picture: It is correct to say that the perimeter of the ABCD sheet, in centimeters, is equal to: a) 60 b) 56 (c) 72 d) 68 and) 64 Exercise resolution 1 Perimeter square corresponds to the sum of measurements of the sides of the square. Since all sides are the same size, just divide the perimeter by 4 to know the measure on the side. Thus, the side of this square is 6 cm in length. Using the square square area formula, we must: So the area of this square is 36 cm². Allowing Exercise 2 When calculating areas, we need measures in one unit. In this rectangle, the base measurement is given in centimeters and height, in meters. Thus, before calculating the area, we will convert the base measure by 100 meters, dividing it by 100 meters: thus, the base measure is 18 meters. Using the rectangle area formula, we must: So the area of this rectangle is 162 m². The resolution of exercise 3 Rand area is given by the proceeds from diagonal measurements divided into 2. Thus, on this construction site the area is given: that is, the area of the flowerbed is 25 m². Exercise Resolution 4 For triangle area, we need to measure the base (b) and measure the height (h). In this exercise we have a measure of the base. To know the value of height, simply multiply the fraction by the base value. So. Thus, the area of the triangle: the triangle has 180 cm² area. Resolution Exercise 5 To address this exercise, we need to calculate the total area of the wall. To do this, let's use the rectangle area formula. We have a base equal to 20 meters and a height equal to 2.8 meters, so: the total area of the wall is 56 m² and every 10 m² of the wall will require new paint. To find out the number of paints to paint the entire wall, just divide the wall area into an area that we can paint with the can, that is: This number means it will take five full sides and just over half can paint the wall. Thus, you need to buy 6 sides of paint to paint the entire wall. If you've had doubts about multiplying the number with the comma, click here to learn how to multiply the decimal number. The resolution of exercise 6 Square is shaped like a circle, so to know the square area, it is enough to calculate the area of the circle. The radius is given by the distance from the center of the circle to the end, so we have. Thus, soon the area is about 774 m² in size. Resolution Exercise 7 When planning we get six rectangles, just calculate the area of each one and add to get the total area of the box. For two rectangles that have a base equal to 24 cm and a height equal to 17 cm: For two rectangles that have a base equal to 24 cm and a height equal to 5 cm: For two rectangles that have a base equal to 17 cm and a height equal to 5 cm: Thus, the total area: So it takes 1226 cm of cardboard to make this box. Resolution Exercise 8 In this exercise we have to calculate the area of the wall and subtract the area of the window where the tile will not be placed. The area of the wall, which is the largest rectangle, is given: the area of the window, which is the smallest rectangle, has already been given, is 2 m². Doing subtraction: So it takes 13 m² tiles to cover this wall. The resolution of exercise 9 The terrain is trapezoidal, so to know the area of the terrain, it is enough to calculate the area of trapezoid with the following dimensions: a larger base - 34 m, a smaller base - 10 m and a height - 16 m. Thus, the correct alternative is the letter d. The resolution of the exercise 10 Perimeter is given by the sum of the sides of the area. So we need to know the measure on the ABCD side of the square. Since this measure depends on the x, the first thing to do is to determine the x. side, we'll use information about the area that was A 169 cm² According to the square area formula, we must: After extracting the square root on either side of the equation, we have that measure on the side given: So squared, measure on the side. Now, using the Pythagoras theorem, let's find out the value x: Logo, x No. 5. Each side of the ABCD sheet is 12 x x 12 x 5 and 17. Thus, the perimeter is given on: 17th and 17th 17th and 17 68. So the right alternative is the letter d. You may also be interested: Looking for exercise listings on flat figure areas? You have reached the right site. Here mathematics fits in a simple and objective way. Good research. 1. Determine the square room area, knowing that the measurement on its side is 6.45 m. 2. Calculate the area of the rectangular square, knowing that the size and width, respectively, 50 m and 35.6 m. 3. Calculate the area of the rectangle, considering that the base is 34 cm long and the height is half the base. 4. A certain number of floors of 25 cm x 25 cm is needed to cover the kitchen floor 5 m long and 4 m wide. Each box has 20 floors. Assuming that no floor breaks during the service, how many boxes is needed to completely cover the kitchen floor? 5. How many square meters of fabric, at least, must be made a towel that completely covers the table, which is 300 cm long and 230 cm wide? 6. In my class, which has a rectangular shape, the floor is covered with synthetic floors measuring 30 cm x 30 cm. I counted 21 floors parallel to one wall and 24 floors parallel to another wall. What's the area in this room? 7. The artist was hired to paint a rectangular room, which is 5.5 m x 7 m. To paint not splash on the floor, it lining the room with newspaper sheets measuring 40 cm x 60 cm. How many sheets of newspaper will be required? 8. Determine the area of the triangle, knowing that its base is 5 cm long and its height is 2.2 cm. 9. Calculate the rand area knowing that its large diagonal is 5 cm long and the smaller diagonal is 2.4 cm 10. Calculate the area of trapezoidal, the largest base of which is 12 cm, the smaller base - 3.4 cm, and the height - 5 cm. 11. Calculate a circumference of 50 cm (consider π No. 3.14). 12. Calculate the area of the picture below, knowing that the measurements in see You liked our list of exercises on flat sections of the figure? Click here to see the feedback. RECTANGLE AREA A and b. h AREA AREA A - L x L - L2 PARALLEL AREA A - b. h TRAPEROID AREA A (B q b.h/2 LOSANGO AREA A - D x d/2 TRIANGLE AREA A) (b x h)/2 A and √p (p-a). (p-b). (p-c) p q (a q b) //2 CIRCLE AREA A - πr² CICALAR SECTOR AREA As No.2/360 CIR CROWN AREA AC - π (R² - r²) RESOLVED EXERCISES 01. Triangle area sides 5 cm, 4 cm and 3 cm: A) 5 B) 6 C) 7 D) 8 E) 9 RESOLUTION Using the iron formula we have: p y (5 x 4 x 3)/2 6 A and √p (p-a). (p-b). (p-c) A. A - √6(1). (2). (3) A - √36 and 6 cm2 ANSWER: B 02. (UESPI) The worker spends three hours cleaning a 20-foot circular radius. If the land were within a 12-meter radius, how much would a worker spend on clearing such land? A) 6.B. 9 h C) 12 h) 18 hours E) 20 hours RESOLUTION: First, we will calculate the area of the two lands, A1 and A2: A1 62 62 π 36m² A2 and 122 π 14m² According to the statement, the worker spends 3 hours to clear the plot 36 m² and 2 hours to clear the plot of 144 m². Thanks to the simple three rules we have: 3 h -----36 m² x 2 h-----144 m² 36 x No. 3.144 x 432 π 36 x 12 h ANSWER: C 03. (PUC-RIO) In a rectangle with a 60th perimeter, the base is twice as high. So area: A) 200 B) 300 C) 100 D) 50 E) 30 RESOLUTION: a a q b b 60 2b 60 - 2 (a b) then: 2b and b 30 - b 10 and area 20 Rectangle is given: A and b. A No 10. 20 and 200 ANSWER: 04. (ENEM) I do not go For reforestation area, it is necessary to completely surround, with a cloth, the sides of the earth, except the side is bordered by the river, according to the picture. Each roll of fabric to be purchased to make the fence contains 48 meters in length. A) 6 B) 7 C) 8 D) 11 E) 12 RESOLUTION: Since the side bordering the river will not be surrounded, it will take 81 and 190 x 81 and 352 meters of screen to surround. The video is 48 meters long, so it will take 352 : 48 and 7.33 rollers. Since you can only buy whole rolls of fabric, 8 rolls must be purchased so that it can be surrounded throughout the area. ANSWER: C 05. (PM-PA) The image below shows the roof of the house where AB and AC, B.C. 4 m, AM 1.5 m, CD and BF 15 m and M is BC's midpoint. While 16 tiles are used to cover a square metre of roof, the amount of tiles to cover this roof will be: A) 800 B) 900 C) 1000 D) 1200 E) 1500 RESOLUTION: As AB and M BC middle point, we have that AMC is the right triangle, where the acin is hypotenusia, MC No. Nos 4 and AM 1.5. Let's use Theorem Pythagoras: AC² - MC² - AM² AC² - 22 - 1.52 AC², 4 - 2.25 AC², 6.25 ac - 2.5 m. Now let's calculate the area of one side of the roof, and then multiply by 2: Area and AC. CD No. 2.5.15 - 37.5 m² 2.37.5 x 75 m². How each m² equals 16 tiles: 16.75 - 1200 ANSWER: D areas de figuras planas ejercicios resuolvidos 7 ano doc. areas de figuras planas ejercicios resuolvidos 9 ano doc. areas de figuras planas ejercicios resuolvidos 8 ano doc. areas de figuras planas ejercicios resuolvidos 6 ano doc. areas de figuras planas ejercicios resuolvidos 2 ano doc

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