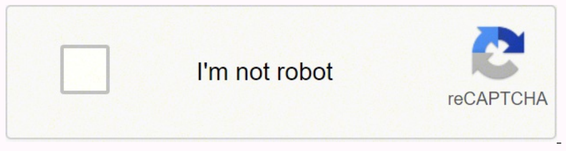

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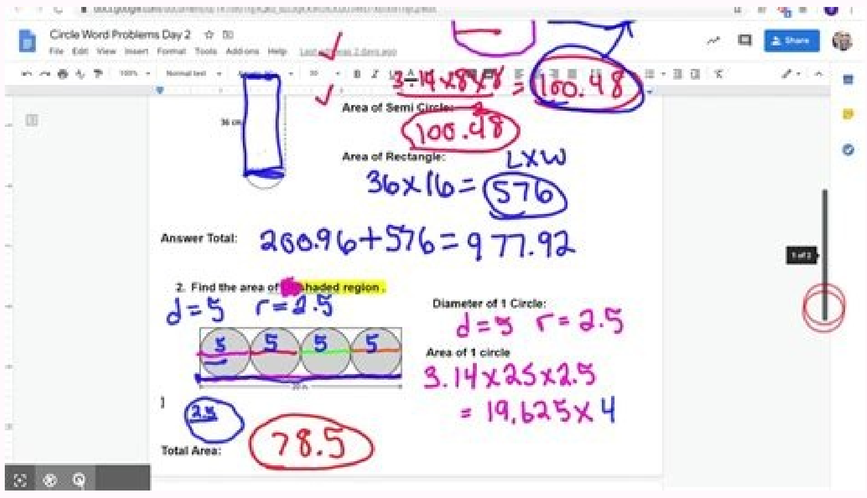

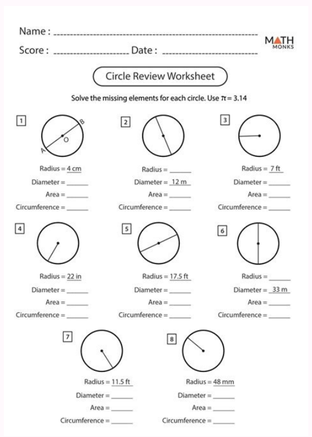

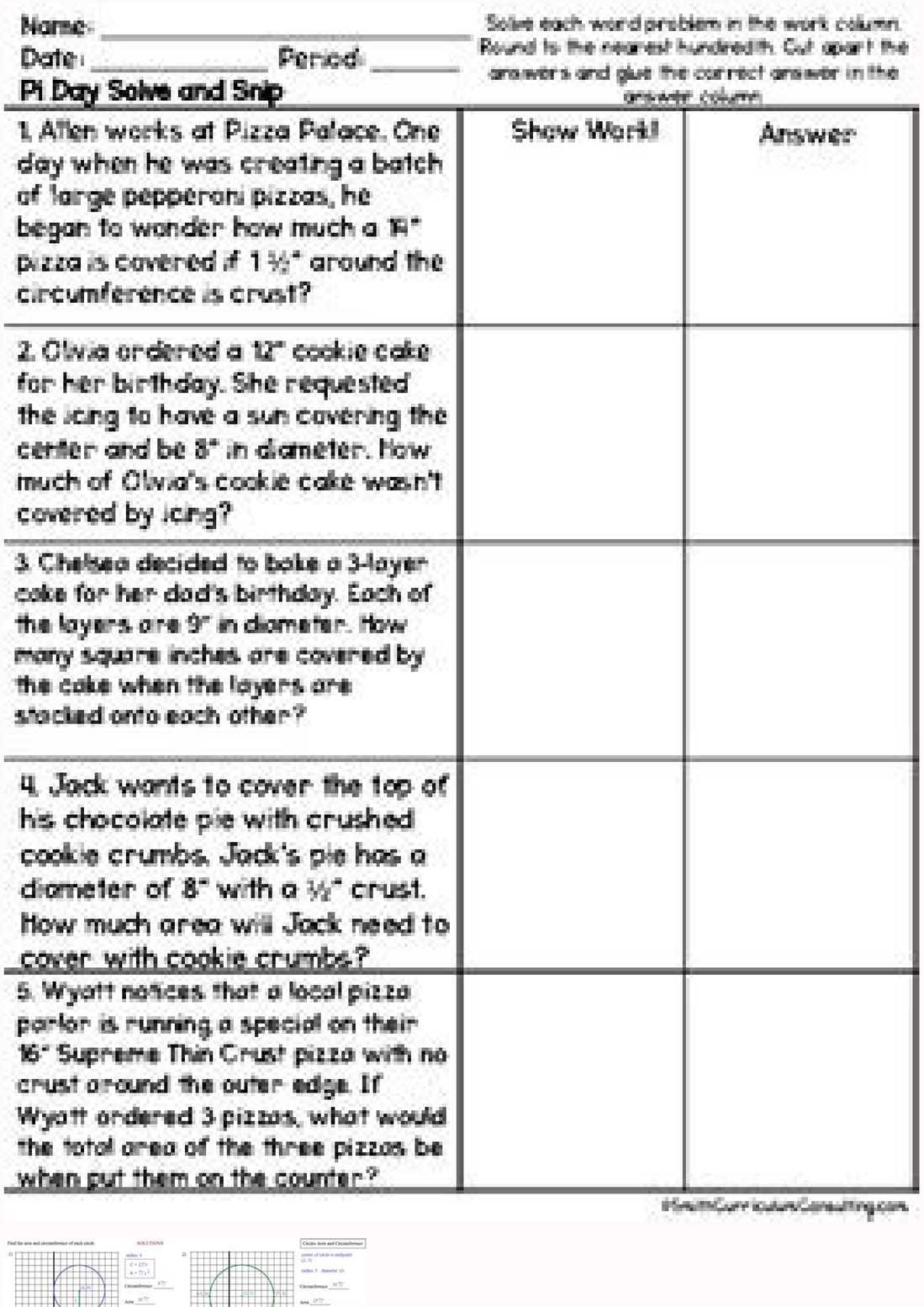

Name: _____

Date: _____ Period: _____

Pi Day Solve and Snip

Solve each word problem in the work column. Round to the nearest hundredth. Cut apart the answers and glue the correct answer in the answer column.

	Show Work!	Answer
1. Allen works at Pizza Palace. One day when he was creating a batch of large pepperoni pizzas, he began to wonder how much a 16" pizza is covered if 1 ½" around the circumference is crust?		
2. Olivia ordered a 12" cookie cake for her birthday. She requested the icing to have a sun covering the center and be 8" in diameter. How much of Olivia's cookie cake wasn't covered by icing?		
3. Chelsea decided to bake a 3-layer cake for her dad's birthday. Each of the layers are 9" in diameter. How many square inches are covered by the cake when the layers are stacked onto each other?		
4. Jack wants to cover the top of his chocolate pie with crushed cookie crumbs. Jack's pie has a diameter of 8" with a ½" crust. How much area will Jack need to cover with cookie crumbs?		
5. Wyatt notices that a local pizza parlor is running a special on their 16" Supreme Thin Crust pizza with no crust around the outer edge. If Wyatt ordered 3 pizzas, what would the total area of the three pizzas be when put them on the counter?		

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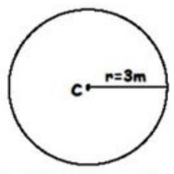
Area Circle (Tricks To Find Area Of Circles) area circle

Look at the given circle to get its radius. Then find the area of the circle using the radius: First one is done for you as an example:

1. Given a circle with centre at "c" and radius **"r" = 3m**



Now Area **$A = \pi r^2$**

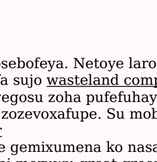
Where "**π**" is called "pi" and is a Greek letter. Its value is fixed which is always equal to 3.14 to find the area of the circle.

Now substitute the values of "**π**" **and radius "r"** into the given formula to find the area:

$A = 3.14 \times (3)^2 = 3.14 \times 9 = 28.26\ m^2$

2. Now you find the area of given circle

3. Find the area of the circle with given radius.



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Rewrite the equation to find the center and radius. (x - 13)2 + (y - 4)2 = 16(x - 13)2 + (y - 4)2 = 42So, the center is (13, 4) and the radius is 4. The circle with center at (13, 4) and radius 4 units shown below (Graph of the disk of light). If the equation is not the equation of a circle clearly explain why not. A coordinate plane is used to arrange the lights, using the corner of stage as the origin. Kindly mail your feedback to v4formath@gmail.comWe always appreciate your feedback. ©All rights reserved. \({x^2} + {y^2} + 14x - 8y + 56 = 0\) Solution \(9{x^2} + 9{y^2} - 6x - 36y - 107 = 0\) Solution \({x^2} + {y^2} + 8x + 20 = 0\) Solution Problem 1 :Write the standard equation of the circle whose center is (-4, 0) and radius is 7.Problem 2 : Write the standard equation of the circle whose general equation isx2 + y2 - 4x + 6y - 12 = 0Problem 3 : The point (1 ,2) is on a circle whose center is (5, -1). Write the standard equation of the circle.Problem 4 :The equation of a circle is (x + 2)2 + (y - 3)2 = 9Graph the circle.Problem 5 :A bank of lights is arranged over a stage. In order to continue enjoying our site, we ask that you confirm your identity as a human. Due to the nature of the mathematics on this site it is best views in landscape mode. If your device is not in landscape mode many of the equations will run off the side of your device (should be able to scroll to see them) and some of the menu items will be cut off due to the narrow screen width. Each light illuminates a circular area on the stage. The equation (x - 13)2 + (y - 4)2 = 16 represents one of the disks of light. (i) Graph the disk of light. (ii) Three actors are located as follows : Henry is at (11, 4)Jolene is at (8, 5)Martin is at (15, 5)Which actors are in the disk of light ? Solution : Solution (i) : To graph the disk of light, we need to know the center and radius of the circle. Solution For problems 3 – 5 determine the radius and center of the circle and sketch the graph of the circle. Write the equation of the circle with radius 3 and center \(\left({6,0} \right)\). Solution Write the equation of the circle with radius \(\sqrt 7 \) and center \(\left({ - 1, - 9} \right)\). Rewrite the equation to find the center and radius. (x + 2)2 + (y - 3)2 = 9[x - (-2)2] + (y - 3)2 = 32So, the center is (-2, 3) and the radius is 3. To graph the circle, place the point of a compass at (-2, 3), set the radius at 3 units and swing the compass to draw a full circle. Problem 5 :A bank of lights is arranged over a stage. The equation (x - 13)2 + (y - 4)2 = 16 represents one of the disks of light. (i) Graph the disk of light. (ii) Three actors are located as follows : Henry is at (11, 4)Jolene is at (8, 5)Martin is at (15, 5)Which actors are in the disk of light ? Detailed Answer Key Problem 1 :Write the standard equation of the circle whose center is (-4, 0) and radius is 7.Solution : Standard equation of a circle. (x - h)2 + (y - k)2 = r2Plug (h, k) = (-4, 0) and r = 7.[x - (-4)2] + (y - 0)2 = 72Simplify. (x + 4)2 + y2 = 49Problem 2 : Write the standard equation of the circle whose general equation isx2 + y2 - 4x + 6y - 12 = 0Solution : To find the standard equation of the circle, we need to know the center and radius. Let us find the center and radius from the given general equation of the circle. Comparing x2 + y2 + 2gx + 2fy + c = 0andx2 + y2 - 4x + 6y - 12 = 0,we have 2g = - 4 -----> g = -22f = 6 -----> f = 3c = -12Center = (-g, -f) = (2, -3)Radius = √[g2 + f2 - c]Radius = √[(-2)2 + 32 - (-12)]Radius = √[4 + 9 + 12]Radius = √25Radius = 5Standard equation of a circle : (x - h)2 + (y - k)2 = r2Plug (h, k) = (2, -3) and r = 5.(x - 2)2 + [y - (-3)2] = 52Simplify. (x - 2)2 + (y + 3)2 = 25Problem 3 : The point (1 ,2) is on a circle whose center is (5, -1). Write the standard equation of the circle.Solution : To find the standard equation of the circle, we need to know the center and radius. The center is already given and we need to find the radius.Using distance formula, we have Radius = √[(5 - 1)2 + (-1 - 2)2]Radius = √[42 + (-3)2]Radius = √[16 + 9]Radius = √25Radius = 5Standard equation of a circle : (x - h)2 + (y - k)2 = r2Plug (h, k) = (5, -1) and r = 5.(x - 5)2 + [y - (-1)2] = 52Simplify. (x - 5)2 + (y + 1)2 = 52Problem 4 :The equation of a circle is (x + 2)2 + (y - 3)2 = 9Graph the circle.Solution :To graph a circle, we need to know the radius and center of the circle. onlinemath4all.com Solution (ii) : The graph given above shows that Henry and Martin are both in the disk of light. Apart from the stuff given above, if you need any other stuff in math, please use our google custom search here. \({\left({x - 9} \right)^2} + {\left({y + 4} \right)^2} = 25\) Solution \({x^2} + {\left({y - 5} \right)^2} = 4\) Solution \({\left({x + 1} \right)^2} + {\left({y + 3} \right)^2} = 6\) Solution For problems 6 – 8 determine the radius and center of the circle. Show Mobile Notice Show All Notes Hide All Notes Mobile Notice You appear to be on a device with a "narrow" screen width (i.e. you are probably on a mobile phone). Thank you very much for your cooperation.

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