

Homework

Name: _____

Date: _____

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.

$$\text{Area of a circle} = \pi r^2$$

$$\text{Circumference of a circle} = 2\pi r$$

Problem	Show work!	Answer
Joselin works at Pizza Palace. One day when she was creating a batch of large pepperoni pizzas, she began to wonder how much of a 14" pizza is covered if 1 ½" around the circumference is crust?		
Aeris 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?		
Sydney and Cameron decided to bake a 3-layer cake for their friend's birthday. Each of the layers are 9" in diameter. How many square inches are covered by the cake when the layers are stacked on top of each other?		

<p>Tarantino wants to cover the top of his chocolate pie with crushed cookie crumbs. Tarantino's pie has a diameter of 8" with a $\frac{1}{2}$" crust. How much area will Tarantino need to cover with cookie crumbs?</p>		
<p>Braden 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 Braden ordered 3 pizzas, what would the total area of the three pizzas be when puts them on the counter?</p>		
<p>Haylee wondered what size plate she would need to display her baked goods at the school bake sale. If each of her baked pies had an area of 38.47 in^2, what would the diameter of Haylee's plates need to be?</p>		
<p>Nate, Alyssa, Eddie, Jackson, Sydney, Adrian and Andrea were excited to go to the school fair. They wanted to determine how many square inches of a target would be covered when he threw a 10" cream pie. What would be the area covered by pie after the target was hit?</p>		

<p>The diameter of Anthony's miniature pie is 6.5cm. Based on this measurement, what would the circumference of his pie be?</p>		
<p>While choosing boxes for her baked goods, Annika wanted to know what the largest pie she could put in a 5" square box would be. What would the circumference of the largest circle to fit inside be?</p>		
<p>As part of a contest, Aliyah and Max wanted to make the biggest whip cream pie they could. They knew the area of the pie plate needed to be 200.96 ft². What would the radius of this pie be?</p>		