

Name _____



Pi Day Pie Problems

(Fun Fact: Bakers everywhere love to make pies on March 14th because it's Pi Day!)

Show your work and solve each word problem.

1. The Guinness world record for the largest pumpkin pie has a diameter of 20 ft. If Lindsay is able to make a pumpkin pie with a circumference of 80 feet, will she beat the record?
2. Neil has an award winning recipe for cookies and cream pie. He decides to make cookies and cream pie in jars to sell at the state fair. If he doubles his crust recipe he can cover 50.24 square inches of crust. Each jar bottom has a diameter of 2 inches. How many cookies and cream pie jars will he be able to make if he doubles his crust recipe?
3. Angela wants to place her 9 inch peach pie on a round board decorated with ribbon around the outside of the board. What length of ribbon does she need if her board is 2 inches wider than her pie?
4. Ron eats $\frac{1}{4}$ of his mom's famous apple pie. The pie had a radius of 5 inches. How many inches of the pie's circumference remains after Ron eats his part?
5. Hillary just opened up a pie shop. A box seller has square boxes with the following sizes and prices: 8 inch box (50 cents each), 9 inch box (70 cents each,) 10 inch boxes (85 cents each). All of her pies have an area of 78.5 square inches. How much will it cost her to order 100 boxes from the seller?

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1. The Guinness world record for the largest pumpkin pie has a diameter of 20 ft. If Lindsay is able to make a pumpkin pie with a circumference of 80 feet, will she beat the record?

YES

2. Neil has an award winning recipe for cookies and cream pie. He decides to make cookies and cream pie in jars to sell at the state fair. If he doubles his crust recipe he can cover 50.24 square inches of crust. Each jar bottom has a diameter of 2 inches. How many cookies and cream pie jars will he be able to make if he doubles his crust recipe?

32 jars

3. Angela wants to place her 9 inch peach pie on a round board decorated with ribbon around the outside of the board. What length of ribbon does she need if her board is 2 inches wider than her pie?

34.54 inches

4. Ron eats $\frac{1}{4}$ of his mom's famous apple pie. The pie had a radius of 5 inches. How many inches of the pie's circumference remains after Ron eats his part?

23.6 inches

5. Hillary just opened up a pie shop. A box seller has square boxes with the following sizes and prices: 8 inch box (50 cents each), 9 inch box (70 cents each) 10 inch boxes (85 cents each). All of her pies have an area of 78.5 square inches. How much will it cost her to order 100 boxes from the seller?

\$85.00