

The Great Food Festival: An Angle Adventure with Pizza, Cookies, and Friends

Math

Grade 4

Food Theme

Help our food friends solve angle mysteries at the Food Festival by calculating angles and identifying shapes in their delicious adventures!

NAME _____

DATE _____

SCORE _____ / 8

1

Pizza Pete is cutting a pizza into 8 equal slices for the party. He wants to know the angle of each slice at the center of the pizza. A whole pizza is 360 degrees. What angle does each slice measure?

2

Cookie Clara is decorating a square cookie with frosting. She wants to pipe a line from one corner to the opposite corner, creating a diagonal. What two equal angles does this diagonal create at each corner of the square? (Hint: A corner of a square is 90 degrees.)

3

Donut Danny is arranging donuts around a circular table for a game. He places 6 donuts equally spaced around the circle. What is the angle between each donut and the next donut, measured from the center of the table?

4

Taco Tanya is opening her food truck and needs to position the door. The door opens to form a right angle (90 degrees) with the side of the truck. She's already opened it 35 degrees. How many more degrees does she need to open it to reach a full right angle?

5

Sandwich Sam is arranging 4 friends around a rectangular table. The friends sit at each corner. Each corner of a rectangle is a right angle. One friend is sitting at a corner. What is the angle at that corner?

6

Cupcake Carla is spinning her birthday cupcake on a turntable. She spins it halfway around. A full spin is 360 degrees. How many degrees did the cupcake rotate?

7

Waffle Wally is learning about triangles at the Food Academy. His teacher gives him a triangle-shaped waffle. She tells him that two angles in the triangle measure 60 degrees and 80 degrees. All three angles in a triangle add up to 180 degrees. What is the measure of the third angle?

8

Burrito Bella is decorating a octagon-shaped serving platter for a special event. She wants to divide it equally into 4 sections from the center. The whole platter is 360 degrees around. What angle does each of her 4 sections measure?

Answer Key

Math

Grade 4

For Parents and Teachers

1

Pizza Pete is cutting a pizza into 8 equal slices for the party. He wants to know the angle of each slice at the center of the pizza. A whole pizza is 360 degrees. What angle does each slice measure?

ANSWER

45 degrees

2

Cookie Clara is decorating a square cookie with frosting. She wants to pipe a line from one corner to the opposite corner, creating a diagonal. What two equal angles does this diagonal create at each corner of the square? (Hint: A corner of a square is 90 degrees.)

ANSWER

45 degrees each

3

Donut Danny is arranging donuts around a circular table for a game. He places 6 donuts equally spaced around the circle. What is the angle between each donut and the next donut, measured from the center of the table?

ANSWER

60 degrees

4

Taco Tanya is opening her food truck and needs to position the door. The door opens to form a right angle (90 degrees) with the side of the truck. She's already opened it 35 degrees. How many more degrees does she need to open it to reach a full right angle?

ANSWER

55 degrees

5

Sandwich Sam is arranging 4 friends around a rectangular table. The friends sit at each corner. Each corner of a rectangle is a right angle. One friend is sitting at a corner. What is the angle at that corner?

ANSWER

90 degrees

6

Cupcake Carla is spinning her birthday cupcake on a turntable. She spins it halfway around. A full spin is 360 degrees. How many degrees did the cupcake rotate?

ANSWER

180 degrees

7

Waffle Wally is learning about triangles at the Food Academy. His teacher gives him a triangle-shaped waffle. She tells him that two angles in the triangle measure 60 degrees and 80 degrees. All three angles in a triangle add up to 180 degrees. What is the measure of the third angle?

ANSWER

40 degrees

8

Burrito Bella is decorating a octagon-shaped serving platter for a special event. She wants to divide it equally into 4 sections from the center. The whole platter is 360 degrees around. What angle does each of her 4 sections measure?

ANSWER

90 degrees