The Great Kitchen Quest: Angles with Chef Charlie and Friends

Math **Grade 4** **Cooking Theme**

🍳 Help Chef Charlie and the kitchen crew solve their angle adventures by measuring, adding, and discovering the perfect angles for their culinary missions!

NAME

DATE

SCORE

_____ / 8

1

Chef Charlie is arranging cake slices on a circular plate. She cuts the cake into equal slices, with each slice forming a 45-degree angle at the center. How many slices did Chef Charlie cut?

2

While mixing batter, Sous Chef Sofia notices that two wooden spoons are leaning against the mixing bowl. One spoon makes a 30-degree angle with the counter, and the other makes a 60-degree angle. What is the sum of both angles?

3

Baker Billy is decorating a rectangular cake with frosting borders. Each corner of the cake forms a right angle. If Billy already frosted 3 corners, how many more right angles does he need to frost?

4

Pastry Chef Penny is designing a pizza cut pattern. She makes one cut that divides the pizza into two pieces, creating two 90-degree angles. Then she makes another cut creating two more 90-degree angles. What is the total of all angles created?

5

In the kitchen gym, Cooking Coach Carlos is teaching students to hold wooden spoons for stirring. He demonstrates an angle of 45 degrees for gentle stirring and a 135-degree angle for vigorous mixing. What is the difference between these two angles?

6

Master Chef Marcus is arranging 6 cookie sheets around a circular oven rack. Each cookie sheet occupies an equal angle of space. How many degrees of angle does each cookie sheet take up?

7

Cooking Crew member Casey is positioning three pot handles around a stove. The first handle points at a 0-degree angle, the second at a 120-degree angle, and the third at a 240-degree angle. Are these three angles equally spaced around the stove?

8

At the Grand Cooking Competition, Judge Jade is setting up a triangular serving platter where one angle measures 50 degrees and another measures 75 degrees. What must the third angle measure if all angles in a triangle add up to 180 degrees?

Answer Key

1

Chef Charlie is arranging cake slices on a circular plate. She cuts the cake into equal slices, with each slice forming a 45-degree angle at the center. How many slices did Chef Charlie cut?

ANSWER

8 slices

2

While mixing batter, Sous Chef Sofia notices that two wooden spoons are leaning against the mixing bowl. One spoon makes a 30-degree angle with the counter, and the other makes a 60-degree angle. What is the sum of both angles?

ANSWER

90 degrees

3

Baker Billy is decorating a rectangular cake with frosting borders. Each corner of the cake forms a right angle. If Billy already frosted 3 corners, how many more right angles does he need to frost?

ANSWER

1 right angle (or 90 degrees)

4

Pastry Chef Penny is designing a pizza cut pattern. She makes one cut that divides the pizza into two pieces, creating two 90-degree angles. Then she makes another cut creating two more 90-degree angles. What is the total of all angles created?

ANSWER

360 degrees

5

In the kitchen gym, Cooking Coach Carlos is teaching students to hold wooden spoons for stirring. He demonstrates an angle of 45 degrees for gentle stirring and a 135-degree angle for vigorous mixing. What is the difference between these two angles?

ANSWER

90 degrees

6

Master Chef Marcus is arranging 6 cookie sheets around a circular oven rack. Each cookie sheet occupies an equal angle of space. How many degrees of angle does each cookie sheet take up?

ANSWER

60 degrees

7

Cooking Crew member Casey is positioning three pot handles around a stove. The first handle points at a 0-degree angle, the second at a 120-degree angle, and the third at a 240-degree angle. Are these three angles equally spaced around the stove?

ANSWER

Yes (120 degrees apart)

8

At the Grand Cooking Competition, Judge Jade is setting up a triangular serving platter where one angle measures 50 degrees and another measures 75 degrees. What must the third angle measure if all angles in a triangle add up to 180 degrees?

ANSWER

55 degrees