

Seasonal Adventures: The Quest for Perfect Angles

Math

Grade 4

Seasons Theme

□ Help Spring, Summer, Autumn, and Winter solve their angle mysteries as they explore the magical seasons!

NAME _____

DATE _____

SCORE _____ / 8

1

Spring is planting flowers in her garden and wants to arrange them in a perfect angle pattern. She plants one flower pointing north and another pointing east. What angle is formed between these two flowers?

2

Summer is flying a kite during a windy day at the beach. The kite string makes a 45-degree angle with the ground. If he adjusts it and makes an angle that is twice as large, what new angle does the string make with the ground?

3

Autumn is arranging colorful leaves in a circle for a festival. She places one leaf at the top and another leaf $\frac{1}{4}$ of the way around the circle. What angle is between these two leaves?

4

Winter is building a snow fort with two walls. One wall points north and another wall points northwest. The angle between north and northwest is 45 degrees. If Winter builds a third wall pointing due west, what is the total angle from the north-pointing wall to the west-pointing wall?

5

Spring discovers three stepping stones in her garden arranged in angles. The first stone is at 0 degrees, the second is at 30 degrees, and the third is at 60 degrees. What is the total angle measurement from the first stone to the third stone?

6

Summer and his friends create a star pattern on the beach using five points. Each point of the star is separated by 72 degrees. If Summer walks from one point to an adjacent point, what angle does he turn?

7

Autumn arranges three pumpkins in a V-shape. The left pumpkin and center pumpkin form a 35-degree angle, and the right pumpkin and center pumpkin also form a 35-degree angle. What is the total angle of the V-shape?

8

Winter is creating a snowflake design with six equal points radiating from the center. All the points together form a complete circle of 360 degrees. What is the angle between each pair of neighboring points on Winter's snowflake?

Answer Key

Math

Grade 4

For Parents and Teachers

1

Spring is planting flowers in her garden and wants to arrange them in a perfect angle pattern. She plants one flower pointing north and another pointing east. What angle is formed between these two flowers?

ANSWER

90 degrees

2

Summer is flying a kite during a windy day at the beach. The kite string makes a 45-degree angle with the ground. If he adjusts it and makes an angle that is twice as large, what new angle does the string make with the ground?

ANSWER

90 degrees

3

Autumn is arranging colorful leaves in a circle for a festival. She places one leaf at the top and another leaf $\frac{1}{4}$ of the way around the circle. What angle is between these two leaves?

ANSWER

90 degrees

4

Winter is building a snow fort with two walls. One wall points north and another wall points northwest. The angle between north and northwest is 45 degrees. If Winter builds a third wall pointing due west, what is the total angle from the north-pointing wall to the west-pointing wall?

ANSWER

90 degrees

5

Spring discovers three stepping stones in her garden arranged in angles. The first stone is at 0 degrees, the second is at 30 degrees, and the third is at 60 degrees. What is the total angle measurement from the first stone to the third stone?

ANSWER

60 degrees

6

Summer and his friends create a star pattern on the beach using five points. Each point of the star is separated by 72 degrees. If Summer walks from one point to an adjacent point, what angle does he turn?

ANSWER

72 degrees

7

Autumn arranges three pumpkins in a V-shape. The left pumpkin and center pumpkin form a 35-degree angle, and the right pumpkin and center pumpkin also form a 35-degree angle. What is the total angle of the V-shape?

ANSWER

70 degrees

8

Winter is creating a snowflake design with six equal points radiating from the center. All the points together form a complete circle of 360 degrees. What is the angle between each pair of neighboring points on Winter's snowflake?

ANSWER

60 degrees