

# Forest Friends' Angle Adventures

Math

Grade 4

Nature Theme

□ Help the woodland creatures solve angle mysteries as they explore the forest and discover the magical angles hidden in nature!

NAME \_\_\_\_\_

DATE \_\_\_\_\_

SCORE \_\_\_\_\_ / 8

1

Sammy the Squirrel found two acorn paths that meet at a corner of the old oak tree. One path points north and the other points east. What angle do these two paths make when they meet?

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2

Luna the Owl is perched on a branch and watches two tree branches stretching out below her. The left branch points to one direction, and the right branch points to the exact opposite direction. Together, they form a straight line. What is the total angle between these two branches?

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3

Three woodland friends—a deer, a fox, and a rabbit—stand in a circle clearing. The deer faces north, the fox faces east (90 degrees to the right), and the rabbit faces southwest (180 degrees from the deer). How many degrees is the angle from the fox to the rabbit, measured clockwise?

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4

Bella the Butterfly lands on a flower petal. She starts by facing toward the stem, then turns 45 degrees to her left to look at a drop of morning dew. From there, she turns another 45 degrees to her left. How many total degrees has Bella turned from her starting position?

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5

At the riverside, Freddy the Frog sits on a lily pad. He watches a stream that splits into three directions: straight ahead (0 degrees), to the left at 60 degrees, and to the right at 60 degrees. If he jumps from the straight path to the left path, what angle does he turn through?

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6

River the Raccoon discovers three stones forming a triangle by the creek. One angle of the triangle is 50 degrees, another angle is 60 degrees. River needs to find the third angle to complete her map. What is the missing angle? (Remember: all angles in a triangle add up to 180 degrees)

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7

In the meadow, Penelope the Porcupine draws a picture in the dirt using sticks. She makes an angle of 120 degrees. She wants to create the opposite angle on the other side of her stick intersection. What angle would that be? (These are called supplementary angles and add up to 180 degrees)

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8

During a forest gathering, the animals create a 'sun dance' circle. Each of the 8 woodland creatures stands equally spaced around the circle. What is the angle between each creature as measured from the center of the circle?

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# Answer Key

Math

Grade 4

For Parents and Teachers

1

Sammy the Squirrel found two acorn paths that meet at a corner of the old oak tree. One path points north and the other points east. What angle do these two paths make when they meet?

ANSWER

90 degrees

2

Luna the Owl is perched on a branch and watches two tree branches stretching out below her. The left branch points to one direction, and the right branch points to the exact opposite direction. Together, they form a straight line. What is the total angle between these two branches?

ANSWER

180 degrees

3

Three woodland friends—a deer, a fox, and a rabbit—stand in a circle clearing. The deer faces north, the fox faces east (90 degrees to the right), and the rabbit faces southwest (180 degrees from the deer). How many degrees is the angle from the fox to the rabbit, measured clockwise?

ANSWER

225 degrees

4

Bella the Butterfly lands on a flower petal. She starts by facing toward the stem, then turns 45 degrees to her left to look at a drop of morning dew. From there, she turns another 45 degrees to her left. How many total degrees has Bella turned from her starting position?

ANSWER

90 degrees

5

At the riverside, Freddy the Frog sits on a lily pad. He watches a stream that splits into three directions: straight ahead (0 degrees), to the left at 60 degrees, and to the right at 60 degrees. If he jumps from the straight path to the left path, what angle does he turn through?

ANSWER

60 degrees

6

River the Raccoon discovers three stones forming a triangle by the creek. One angle of the triangle is 50 degrees, another angle is 60 degrees. River needs to find the third angle to complete her map. What is the missing angle? (Remember: all angles in a triangle add up to 180 degrees)

ANSWER

70 degrees

7

In the meadow, Penelope the Porcupine draws a picture in the dirt using sticks. She makes an angle of 120 degrees. She wants to create the opposite angle on the other side of her stick intersection. What angle would that be? (These are called supplementary angles and add up to 180 degrees)

**ANSWER**

**60 degrees**

8

During a forest gathering, the animals create a 'sun dance' circle. Each of the 8 woodland creatures stands equally spaced around the circle. What is the angle between each creature as measured from the center of the circle?

**ANSWER**

**45 degrees**