

# Gerty the Gardener's Angle Adventures in the Magical Garden

Math

Grade 4

Gardening Theme

Help Gerty and her friends solve angle mysteries as they explore their enchanted garden full of twists, turns, and geometric surprises!

NAME \_\_\_\_\_

DATE \_\_\_\_\_

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

1

Gerty is planting sunflowers in a circular garden bed. She starts facing north and turns to face east to plant the next flower. How many degrees did Gerty turn?

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2

At the Garden Gate, two pathways meet to form a straight line. One pathway makes a 65-degree angle with a fence post. What is the measure of the angle on the other side of the fence post?

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3

Benny the Butterfly is designing a triangular herb garden. Two of the angles measure 50 degrees and 60 degrees. What is the measure of the third angle?

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4

Rosie the Robin is building a square garden trellis for climbing vines. She needs to know the measure of each corner angle in her square trellis. What is each angle?

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5

Tommy the Toad is hopping around a rectangular lily pad. He starts by facing one corner at a right angle. He turns 45 degrees to the left to catch a fly. What angle is he now facing from his starting position?

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6

Gerty draws a map of her garden paths that form angles. One angle measures 120 degrees. She wants to create a complementary angle to help design a new pathway. Wait—complementary angles only work with 90 degrees! Instead, what is the supplementary angle to 120 degrees?

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7

Three garden pathways meet at a central fountain, creating three angles around a point. One angle is 140 degrees and another is 110 degrees. What is the measure of the third angle around the point?

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8

Gerty is creating a decorative garden border with 6 identical sections arranged in a circle around a birdbath. Each section takes up an equal angle. What is the angle measure of each section?

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# Answer Key

Math

Grade 4

For Parents and Teachers

1

Gerty is planting sunflowers in a circular garden bed. She starts facing north and turns to face east to plant the next flower. How many degrees did Gerty turn?

ANSWER

90 degrees

2

At the Garden Gate, two pathways meet to form a straight line. One pathway makes a 65-degree angle with a fence post. What is the measure of the angle on the other side of the fence post?

ANSWER

115 degrees

3

Benny the Butterfly is designing a triangular herb garden. Two of the angles measure 50 degrees and 60 degrees. What is the measure of the third angle?

ANSWER

70 degrees

4

Rosie the Robin is building a square garden trellis for climbing vines. She needs to know the measure of each corner angle in her square trellis. What is each angle?

ANSWER

90 degrees

5

Tommy the Toad is hopping around a rectangular lily pad. He starts by facing one corner at a right angle. He turns 45 degrees to the left to catch a fly. What angle is he now facing from his starting position?

ANSWER

45 degrees

6

Gerty draws a map of her garden paths that form angles. One angle measures 120 degrees. She wants to create a complementary angle to help design a new pathway. Wait—complementary angles only work with 90 degrees! Instead, what is the supplementary angle to 120 degrees?

ANSWER

60 degrees

7

Three garden pathways meet at a central fountain, creating three angles around a point. One angle is 140 degrees and another is 110 degrees. What is the measure of the third angle around the point?

ANSWER

110 degrees

8

Gerty is creating a decorative garden border with 6 identical sections arranged in a circle around a birdbath. Each section takes up an equal angle. What is the angle measure of each section?

ANSWER

60 degrees