

# Tech Heroes' Angle Adventures: Save the Digital Kingdom

Math

Grade 4

Technology Theme

□ Help the Tech Heroes navigate through the Digital Kingdom by solving angle challenges and unlocking secret pathways!

NAME \_\_\_\_\_

DATE \_\_\_\_\_

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

1

Pixel the Robot is building a corner fortress in the Digital Kingdom. She needs to create a perfect right angle for the main gate. What is the measure of a right angle?

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2

Code the Coder is designing a laser beam defense system. The first laser shoots at a 35-degree angle, and the second laser shoots at a 55-degree angle from the same point. Together, what total angle do the two lasers cover?

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3

Byte the Dragon is turning a giant gear to open the treasure vault. He turns the gear 45 degrees clockwise, then 45 degrees more clockwise. How many degrees total has Byte turned the gear?

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4

Giga the AI is mapping out the Digital Kingdom. A straight road runs through the kingdom making a straight line. This straight angle measures how many degrees?

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5

Chip the Widget is adjusting a solar panel to catch the most energy. The panel starts pointing straight up (0 degrees) and rotates 120 degrees counterclockwise. What is the new angle position of the panel?

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6

Loop the Loop is creating a spinning obstacle course. Three angles make up the course: one angle is 60 degrees, another is 70 degrees, and the third is 50 degrees. What is the sum of all three angles?

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7

Spark the Speedster is racing through tunnels that twist at different angles. The first tunnel twists 30 degrees left, the second tunnel twists 40 degrees right, and the third tunnel twists 20 degrees left. If we measure all left turns as positive, what is the total angle Spark has turned?

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8

Nova the Navigator is using a compass to find the Crystal of Power. She points the compass needle north (0 degrees) and then turns it 90 degrees clockwise to face east, then turns it another 90 degrees clockwise. How many degrees total has she rotated from the starting position?

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# Answer Key

Math

Grade 4

For Parents and Teachers

1

Pixel the Robot is building a corner fortress in the Digital Kingdom. She needs to create a perfect right angle for the main gate. What is the measure of a right angle?

ANSWER

90 degrees

2

Code the Coder is designing a laser beam defense system. The first laser shoots at a 35-degree angle, and the second laser shoots at a 55-degree angle from the same point. Together, what total angle do the two lasers cover?

ANSWER

90 degrees

3

Byte the Dragon is turning a giant gear to open the treasure vault. He turns the gear 45 degrees clockwise, then 45 degrees more clockwise. How many degrees total has Byte turned the gear?

ANSWER

90 degrees

4

Giga the AI is mapping out the Digital Kingdom. A straight road runs through the kingdom making a straight line. This straight angle measures how many degrees?

ANSWER

180 degrees

5

Chip the Widget is adjusting a solar panel to catch the most energy. The panel starts pointing straight up (0 degrees) and rotates 120 degrees counterclockwise. What is the new angle position of the panel?

ANSWER

120 degrees

6

Loop the Loop is creating a spinning obstacle course. Three angles make up the course: one angle is 60 degrees, another is 70 degrees, and the third is 50 degrees. What is the sum of all three angles?

ANSWER

180 degrees

7

Spark the Speedster is racing through tunnels that twist at different angles. The first tunnel twists 30 degrees left, the second tunnel twists 40 degrees right, and the third tunnel twists 20 degrees left. If we measure all left turns as positive, what is the total angle Spark has turned?

ANSWER

50 degrees

8

Nova the Navigator is using a compass to find the Crystal of Power. She points the compass needle north (0 degrees) and then turns it 90 degrees clockwise to face east, then turns it another 90 degrees clockwise. How many degrees total has she rotated from the starting position?

ANSWER

180 degrees

