

Around the World: Angle Adventures with Travel Characters

Math

Grade 4

Travel Theme

Help our globe-trotting travelers navigate their adventures by solving angle problems at each exciting destination!

NAME _____

DATE _____

SCORE _____ / 8

1

Captain Marina is sailing her ship into a harbor. She needs to turn her ship's wheel to change direction. She starts facing North and turns clockwise 90 degrees toward the East. Then she turns another 90 degrees clockwise. Which direction is Captain Marina now facing?

2

Explorer Leo is hiking up a mountain trail. He looks down at his compass and notices two trails ahead of him forming an angle. One trail points North and another points Northeast. What is the measure of the angle between these two trails?

3

Pilot Sofia is landing her airplane at an airport. The control tower tells her to descend at a steep angle. If a straight, level flight path is 180 degrees, and Sofia descends at an angle that is half of a right angle, what angle is she descending at?

4

Tour Guide Marco is showing visitors the corner of two ancient city streets in Rome. The streets meet to form a right angle. If one angle formed is 35 degrees, what is the measure of the other angle that completes the right angle?

5

Adventurer Yuki is rock climbing and notices the climbing wall makes an angle with the ground. A vertical wall creates a 90-degree angle with the ground. If the climbing wall leans back at 25 degrees from vertical, what angle does it make with the ground now?

6

Train conductor Chen is planning a route. The track ahead splits into three directions: straight ahead, 45 degrees to the left, and 45 degrees to the right. If Chen takes the left path and then turns 90 degrees to his right, how many degrees has he turned in total from his original direction?

7

Photographer Alex is setting up a camera on a tripod at the Eiffel Tower. The tripod legs spread out creating angles. If one leg makes a 60-degree angle with the ground, and another leg makes a 50-degree angle with the ground, what is the total of both angles?

8

Cruise ship Captain Diego is mapping out a route. He travels 120 degrees East, then turns and travels 120 degrees further in a similar turning pattern. If he makes one more 120-degree turn, what is the total of all three angle turns he makes?

Answer Key

Math

Grade 4

For Parents and Teachers

1

Captain Marina is sailing her ship into a harbor. She needs to turn her ship's wheel to change direction. She starts facing North and turns clockwise 90 degrees toward the East. Then she turns another 90 degrees clockwise. Which direction is Captain Marina now facing?

ANSWER

South

2

Explorer Leo is hiking up a mountain trail. He looks down at his compass and notices two trails ahead of him forming an angle. One trail points North and another points Northeast. What is the measure of the angle between these two trails?

ANSWER

45 degrees

3

Pilot Sofia is landing her airplane at an airport. The control tower tells her to descend at a steep angle. If a straight, level flight path is 180 degrees, and Sofia descends at an angle that is half of a right angle, what angle is she descending at?

ANSWER

45 degrees

4

Tour Guide Marco is showing visitors the corner of two ancient city streets in Rome. The streets meet to form a right angle. If one angle formed is 35 degrees, what is the measure of the other angle that completes the right angle?

ANSWER

55 degrees

5

Adventurer Yuki is rock climbing and notices the climbing wall makes an angle with the ground. A vertical wall creates a 90-degree angle with the ground. If the climbing wall leans back at 25 degrees from vertical, what angle does it make with the ground now?

ANSWER

65 degrees

6

Train conductor Chen is planning a route. The track ahead splits into three directions: straight ahead, 45 degrees to the left, and 45 degrees to the right. If Chen takes the left path and then turns 90 degrees to his right, how many degrees has he turned in total from his original direction?

ANSWER

135 degrees

7

Photographer Alex is setting up a camera on a tripod at the Eiffel Tower. The tripod legs spread out creating angles. If one leg makes a 60-degree angle with the ground, and another leg makes a 50-degree angle with the ground, what is the total of both angles?

ANSWER

110 degrees

8

Cruise ship Captain Diego is mapping out a route. He travels 120 degrees East, then turns and travels 120 degrees further in a similar turning pattern. If he makes one more 120-degree turn, what is the total of all three angle turns he makes?

ANSWER

360 degrees