

Ocean Adventures: Angles with Splash the Dolphin and Friends

Math

Grade 4

Ocean Theme

Help Splash and his ocean friends navigate their underwater kingdom by solving these angle adventures!

NAME _____

DATE _____

SCORE _____ / 8

1

Splash the dolphin is playing with his friends near a coral reef. He swims in one direction, then turns to avoid a sea turtle. His first path and second path form a right angle. How many degrees is a right angle?

2

Captain Whale is teaching young dolphins about directions. He points north, then turns completely around to point south. What is the total angle that Captain Whale turned through?

3

Shelly the sea turtle is decorating her shell with colorful patterns. She draws one line pointing up and another line pointing to the right, creating an angle between them. What is the measure of the angle between up and right?

4

Splash sees a sunken treasure chest and swims toward it. He starts facing east, then rotates all the way around in a full circle to check for dangers before opening it. How many degrees did Splash rotate?

5

Larry the lobster is arranging rocks to mark his home. He places three rocks that form an angle. The angle is smaller than a right angle and measures 45 degrees. If he wants to make an angle that is twice as large, what will the new angle measure be?

6

Coral the colorful fish swims along two paths that meet at the sea grass. One path goes north and one path goes east. Together, these paths form a straight line at one point, then bend. The angle on one side is 60 degrees. What is the angle on the other side of the straight line?

7

Penny the penguin waddles along the ocean floor creating three angles at an intersection point. The first angle is 90 degrees, and the second angle is 45 degrees. If all three angles meet at one point, what must the third angle measure to complete the full circle?

8

Splash and his friend create an obstacle course. They mark four corners of a square cave. Each corner creates a right angle. How many degrees are there in total if you add all four corners together?

Answer Key

Math

Grade 4

For Parents and Teachers

1

Splash the dolphin is playing with his friends near a coral reef. He swims in one direction, then turns to avoid a sea turtle. His first path and second path form a right angle. How many degrees is a right angle?

ANSWER

90 degrees

2

Captain Whale is teaching young dolphins about directions. He points north, then turns completely around to point south. What is the total angle that Captain Whale turned through?

ANSWER

180 degrees

3

Shelly the sea turtle is decorating her shell with colorful patterns. She draws one line pointing up and another line pointing to the right, creating an angle between them. What is the measure of the angle between up and right?

ANSWER

90 degrees

4

Splash sees a sunken treasure chest and swims toward it. He starts facing east, then rotates all the way around in a full circle to check for dangers before opening it. How many degrees did Splash rotate?

ANSWER

360 degrees

5

Larry the lobster is arranging rocks to mark his home. He places three rocks that form an angle. The angle is smaller than a right angle and measures 45 degrees. If he wants to make an angle that is twice as large, what will the new angle measure be?

ANSWER

90 degrees

6

Coral the colorful fish swims along two paths that meet at the sea grass. One path goes north and one path goes east. Together, these paths form a straight line at one point, then bend. The angle on one side is 60 degrees. What is the angle on the other side of the straight line?

ANSWER

120 degrees

7

Penny the penguin waddles along the ocean floor creating three angles at an intersection point. The first angle is 90 degrees, and the second angle is 45 degrees. If all three angles meet at one point, what must the third angle measure to complete the full circle?

ANSWER

225 degrees

8

Splash and his friend create an obstacle course. They mark four corners of a square cave. Each corner creates a right angle. How many degrees are there in total if you add all four corners together?

ANSWER

360 degrees