Underwater Angle Adventures: Discover Angles with Ocean Friends

Math   Grade 4   Underwater Theme

🌊 **Help our underwater characters navigate their ocean world by solving angle challenges and measuring turns in their exciting adventures!**

NAME
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DATE
_____

SCORE
_____ / 8

1

Shelly the sea turtle is swimming through a coral maze. She starts facing north toward a school of fish, then turns to face a bright sea anemone. If she turned 90 degrees to her right, what direction is she now facing?

2

Ollie the octopus is arranging his eight tentacles to create angles. He spreads two tentacles so they form a straight line from tip to tip. What is the angle measure of a straight line?

3

A group of dolphins are playing in the water and creating an angle with their jump. Dottie the dolphin jumps up making one side of an angle, and her friend Dash jumps making the other side. Together they create a right angle. How many degrees is a right angle?

4

Captain Coral the crab is building a treasure map on the ocean floor. He marks three points: the treasure chest, a shipwreck, and his home. The angle formed between the path from his home to the shipwreck and the path from his home to the treasure chest is 45 degrees. If he turns this angle three times, how many total degrees will he have turned?

5

Stella the starfish has five points on her body. She wants to measure the angle at the tip of each point of her star shape. If each point makes an angle of 36 degrees, and she measures all five points, what is the total number of degrees?

6

Three friendly fish are swimming in formation and creating angles with their paths. Finley the fish swims in a direction, then turns 60 degrees left, then turns 60 degrees left again. If she continues this pattern one more time with a 60 degree left turn, how many total degrees has she turned?

7

Bubbles the blowfish is exploring angles at the ocean's edge. He finds a corner where two rocks meet at a right angle. His friend Splash finds a corner where two coral pieces meet at an angle of 120 degrees. What is the difference between these two angles?

8

A family of seahorses is creating an angle dance! They hold their tails to form an angle of 75 degrees. If they open their formation and increase the angle by 25 degrees more, what is the new angle measure of their dance formation?

Answer Key

Math   Grade 4   For Parents and Teachers

1

Shelly the sea turtle is swimming through a coral maze. She starts facing north toward a school of fish, then turns to face a bright sea anemone. If she turned 90 degrees to her right, what direction is she now facing?

ANSWER

East

2

Ollie the octopus is arranging his eight tentacles to create angles. He spreads two tentacles so they form a straight line from tip to tip. What is the angle measure of a straight line?

ANSWER

180 degrees

3

A group of dolphins are playing in the water and creating an angle with their jump. Dottie the dolphin jumps up making one side of an angle, and her friend Dash jumps making the other side. Together they create a right angle. How many degrees is a right angle?

ANSWER

90 degrees

4

Captain Coral the crab is building a treasure map on the ocean floor. He marks three points: the treasure chest, a shipwreck, and his home. The angle formed between the path from his home to the shipwreck and the path from his home to the treasure chest is 45 degrees. If he turns this angle three times, how many total degrees will he have turned?

ANSWER

135 degrees

5

Stella the starfish has five points on her body. She wants to measure the angle at the tip of each point of her star shape. If each point makes an angle of 36 degrees, and she measures all five points, what is the total number of degrees?

ANSWER

180 degrees

6

Three friendly fish are swimming in formation and creating angles with their paths. Finley the fish swims in a direction, then turns 60 degrees left, then turns 60 degrees left again. If she continues this pattern one more time with a 60 degree left turn, how many total degrees has she turned?

ANSWER

180 degrees

7

Bubbles the blowfish is exploring angles at the ocean's edge. He finds a corner where two rocks meet at a right angle. His friend Splash finds a corner where two coral pieces meet at an angle of 120 degrees. What is the difference between these two angles?

ANSWER

30 degrees

8

A family of seahorses is creating an angle dance! They hold their tails to form an angle of 75 degrees. If they open their formation and increase the angle by 25 degrees more, what is the new angle measure of their dance formation?

ANSWER

100 degrees