Cosmic Angle Adventures: Helping Space Explorers Navigate the Galaxy

Math **Grade 4** **Space Theme**

Help our brave Space Explorers solve angle mysteries by using your math skills to guide them safely through their cosmic journeys!

NAME _____ **DATE** _____ **SCORE** _____ / 8

1
Captain Stellar is piloting her spaceship through an asteroid field. She needs to turn her ship to avoid a giant floating rock. She starts facing toward Planet Zeon, then turns 45 degrees to the left to dodge an asteroid. How many degrees did Captain Stellar turn her ship?

2
Zorp the Alien Robot is building a new space station. He needs to connect two solar panels with a metal rod. The panels form a right angle. A right angle measures how many degrees? Help Zorp complete his space station!

3
Luna the Moon Ranger is mapping the crater on the surface of Crater Moon. She measures two paths that meet at a point. One path makes a 30-degree angle, and the other makes a 60-degree angle. If these two angles are next to each other, what is their total angle measurement?

4
Comet the Space Dog is chasing a meteor across the galaxy. He starts by heading in one direction, then makes a complete 360-degree spin in zero gravity to look around. If he completes one full spin, how many degrees has Comet turned in total?

5
Commander Nova is designing a new telescope on the space station. The telescope lens has a straight edge, which forms a straight angle. A straight angle measures how many degrees? Help Commander Nova build the perfect telescope!

6
Pixel the Space Alien is creating a star map. She draws lines from her ship to three different stars. The angle between Star A and Star B is 75 degrees. The angle between Star B and Star C is 85 degrees. What is the total angle from Star A to Star C?

7

Captain Blaze is navigating through an asteroid corridor. He needs to turn his spaceship twice: first, he turns 120 degrees to avoid one asteroid, then he turns another 40 degrees to avoid a second asteroid. What is the total number of degrees Captain Blaze has turned?

8

Stellar the Space Explorer found an alien compass on Planet Quantum. The compass shows that the angle to the nearest space station is 25 degrees to the right, and the angle to a mysterious nebula is 115 degrees to the right. What is the difference between these two angles?

Answer Key

1

Captain Stellar is piloting her spaceship through an asteroid field. She needs to turn her ship to avoid a giant floating rock. She starts facing toward Planet Zeon, then turns 45 degrees to the left to dodge an asteroid. How many degrees did Captain Stellar turn her ship?

ANSWER

45 degrees

2

Zorp the Alien Robot is building a new space station. He needs to connect two solar panels with a metal rod. The panels form a right angle. A right angle measures how many degrees? Help Zorp complete his space station!

ANSWER

90 degrees

3

Luna the Moon Ranger is mapping the crater on the surface of Crater Moon. She measures two paths that meet at a point. One path makes a 30-degree angle, and the other makes a 60-degree angle. If these two angles are next to each other, what is their total angle measurement?

ANSWER

90 degrees

4

Comet the Space Dog is chasing a meteor across the galaxy. He starts by heading in one direction, then makes a complete 360-degree spin in zero gravity to look around. If he completes one full spin, how many degrees has Comet turned in total?

ANSWER

360 degrees

5

Commander Nova is designing a new telescope on the space station. The telescope lens has a straight edge, which forms a straight angle. A straight angle measures how many degrees? Help Commander Nova build the perfect telescope!

ANSWER

180 degrees

6

Pixel the Space Alien is creating a star map. She draws lines from her ship to three different stars. The angle between Star A and Star B is 75 degrees. The angle between Star B and Star C is 85 degrees. What is the total angle from Star A to Star C?

ANSWER

160 degrees

7

Captain Blaze is navigating through an asteroid corridor. He needs to turn his spaceship twice: first, he turns 120 degrees to avoid one asteroid, then he turns another 40 degrees to avoid a second asteroid. What is the total number of degrees Captain Blaze has turned?

ANSWER

160 degrees

8

Stellar the Space Explorer found an alien compass on Planet Quantum. The compass shows that the angle to the nearest space station is 25 degrees to the right, and the angle to a mysterious nebula is 115 degrees to the right. What is the difference between these two angles?

ANSWER

90 degrees