

# Dinosaur Angle Adventures: Help T-Rex and Friends Navigate the Prehistoric World!

Math

Grade 4

Dinosaurs Theme

Help our brave dinosaur friends solve angle problems on their exciting adventures through the Mesozoic Era!

NAME \_\_\_\_\_

DATE \_\_\_\_\_

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

1

Brave T-Rex is standing at the entrance of a cave and needs to aim her head at different angles to look for her baby. First, she looks straight ahead at  $0^\circ$ . Then she turns her head up to spot a pterodactyl flying overhead at  $45^\circ$ . How many degrees did T-Rex turn her head?

---

---

---

2

Triceratops is charging at three different angles to practice her combat skills for the tournament. She charges northeast at a  $45^\circ$  angle, then turns and charges east at a  $0^\circ$  angle. What is the total angle of her two charges combined?

---

---

---

3

Little Stegosaurus is arranging rocks in a circle to mark the boundaries of her territory. She places rocks at right angles ( $90^\circ$ ) to create four equal sections. If she uses 4 right angles, what is the total angle around the complete circle?

---

---

---

4

Ankylosaurus is swinging his powerful tail in a practice drill. He swings it  $30^\circ$  to the left, then  $50^\circ$  to the right. What is the total angle his tail moved?

---

---

---

5

A group of baby dinosaurs are building a roof for their nest using sticks. They lean two sticks together creating an angle of  $60^\circ$  on one side. What is the angle on the other side if the sticks form a straight line ( $180^\circ$ )?

---

---

---

6

Velociraptor is designing a hunting formation with her pack. She arranges the first group at a  $35^\circ$  angle from the starting point, and the second group at a  $65^\circ$  angle from the same starting point. What is the total angle between the two group formations?

---

---

---

7

Diplodocus is stretching her long neck in different directions. She stretches it  $25^\circ$  to the left, then  $35^\circ$  to the right, then  $20^\circ$  more to the right. What is the total angle she moved her neck?

  
  

8

Parasaurolophus is creating a triangular trap to catch fish. Two angles of the triangle are  $50^\circ$  and  $60^\circ$ . Remember, all angles in a triangle add up to  $180^\circ$ . What is the measure of the third angle?

# Answer Key

Math

Grade 4

For Parents and Teachers

1

Brave T-Rex is standing at the entrance of a cave and needs to aim her head at different angles to look for her baby. First, she looks straight ahead at  $0^\circ$ . Then she turns her head up to spot a pterodactyl flying overhead at  $45^\circ$ . How many degrees did T-Rex turn her head?

ANSWER

45 degrees

2

Triceratops is charging at three different angles to practice her combat skills for the tournament. She charges northeast at a  $45^\circ$  angle, then turns and charges east at a  $0^\circ$  angle. What is the total angle of her two charges combined?

ANSWER

45 degrees

3

Little Stegosaurus is arranging rocks in a circle to mark the boundaries of her territory. She places rocks at right angles ( $90^\circ$ ) to create four equal sections. If she uses 4 right angles, what is the total angle around the complete circle?

ANSWER

360 degrees

4

Ankylosaurus is swinging his powerful tail in a practice drill. He swings it  $30^\circ$  to the left, then  $50^\circ$  to the right. What is the total angle his tail moved?

ANSWER

80 degrees

5

A group of baby dinosaurs are building a roof for their nest using sticks. They lean two sticks together creating an angle of  $60^\circ$  on one side. What is the angle on the other side if the sticks form a straight line ( $180^\circ$ )?

ANSWER

120 degrees

6

Velociraptor is designing a hunting formation with her pack. She arranges the first group at a  $35^\circ$  angle from the starting point, and the second group at a  $65^\circ$  angle from the same starting point. What is the total angle between the two group formations?

ANSWER

100 degrees

7

Diplodocus is stretching her long neck in different directions. She stretches it  $25^\circ$  to the left, then  $35^\circ$  to the right, then  $20^\circ$  more to the right. What is the total angle she moved her neck?

ANSWER

80 degrees

8

Parasaurolophus is creating a triangular trap to catch fish. Two angles of the triangle are  $50^\circ$  and  $60^\circ$ . Remember, all angles in a triangle add up to  $180^\circ$ . What is the measure of the third angle?

ANSWER

70 degrees

