Superhero Angle Adventures: Save the City with Mathematics!

Math   Grade 4   Superheroes Theme

🦸 Help your favorite Superheroes solve angle problems during their incredible missions to protect the city!

NAME _____   DATE _____   SCORE _____ / 8

1

Spider-Man is shooting web lines from the top of a building to catch a falling citizen. He shoots one web at a 35-degree angle to the left and another web at a 28-degree angle to the right. What is the total angle between both web lines?

2

Wonder Woman is using her lasso to create a perfect circle above her head to catch a villain. A circle has 360 degrees total. If she divides the circle into 4 equal sections to create a target pattern, how many degrees will each section be?

3

Batman is shining the Bat-Signal into the night sky. The signal makes a 90-degree angle pointing straight up. He adjusts it down by 35 degrees to aim at the villain's hideout. What angle is the Bat-Signal now pointing at from straight up?

4

Iron Man's repulsor beams shoot at angles from his hands. His left hand shoots at a 72-degree angle and his right hand shoots at a 43-degree angle. What is the difference between these two angles?

5

Captain America throws his shield which ricochets off a wall. The shield hits the wall at a 60-degree angle from the ground. When it bounces back, it travels at the same angle on the other side of an imaginary line. What are the two angles together?

6

Black Widow is planning an escape route and needs to calculate angles in a triangle room. One corner of the room has a 45-degree angle and another corner has a 65-degree angle. All angles in a triangle add up to 180 degrees. What is the third angle?

7

The Hulk pounds the ground and creates a shockwave that spreads out in all directions. If the shockwave spreads in a straight line at 180 degrees in one direction, how many degrees does it spread in the opposite direction to make a complete straight line?

8

Thor is swinging his hammer Mjolnir in a circular arc. He starts the swing at 0 degrees, swings through 115 degrees in the first movement, and then swings through another 130 degrees to complete his attack. What is the total angle of Thor's complete hammer swing?

Answer Key

1

Spider-Man is shooting web lines from the top of a building to catch a falling citizen. He shoots one web at a 35-degree angle to the left and another web at a 28-degree angle to the right. What is the total angle between both web lines?

ANSWER

63 degrees

2

Wonder Woman is using her lasso to create a perfect circle above her head to catch a villain. A circle has 360 degrees total. If she divides the circle into 4 equal sections to create a target pattern, how many degrees will each section be?

ANSWER

90 degrees

3

Batman is shining the Bat-Signal into the night sky. The signal makes a 90-degree angle pointing straight up. He adjusts it down by 35 degrees to aim at the villain's hideout. What angle is the Bat-Signal now pointing at from straight up?

ANSWER

55 degrees

4

Iron Man's repulsor beams shoot at angles from his hands. His left hand shoots at a 72-degree angle and his right hand shoots at a 43-degree angle. What is the difference between these two angles?

ANSWER

29 degrees

5

Captain America throws his shield which ricochets off a wall. The shield hits the wall at a 60-degree angle from the ground. When it bounces back, it travels at the same angle on the other side of an imaginary line. What are the two angles together?

ANSWER

120 degrees

6

Black Widow is planning an escape route and needs to calculate angles in a triangle room. One corner of the room has a 45-degree angle and another corner has a 65-degree angle. All angles in a triangle add up to 180 degrees. What is the third angle?

ANSWER

70 degrees

7

The Hulk pounds the ground and creates a shockwave that spreads out in all directions. If the shockwave spreads in a straight line at 180 degrees in one direction, how many degrees does it spread in the opposite direction to make a complete straight line?

ANSWER

180 degrees (or forms a straight line)

8

Thor is swinging his hammer Mjolnir in a circular arc. He starts the swing at 0 degrees, swings through 115 degrees in the first movement, and then swings through another 130 degrees to complete his attack. What is the total angle of Thor's complete hammer swing?

ANSWER

245 degrees