Name _____ Geometry Word Problems

Photography

1. A photographer is framing a rectangular photo with a length of 12 inches and a width of 8 inches. Calculate the photo's area in square inches.

2. A camera lens has a circular aperture with a diameter of 2 centimeters. Determine the aperture's area in square centimeters.

3. A photographer is capturing a panorama with a wide-angle lens. If the lens has an angle of view of 120 degrees, what is the angle formed between two opposite edges of the photo?

4. A photographer is framing a square photo with sides of 10 inches. Calculate the perimeter of the photo in inches.

5. A camera sensor has a rectangular shape with dimensions 22 millimeters by 14 millimeters. Determine the sensor's area in square millimeters.

6. A photographer is using a circular filter with a radius of 4 centimeters. Calculate the filter's circumference in centimeters.

7. A tripod is set up to capture a photo at an elevation angle of 45 degrees. If the tripod's height is 60 inches, how high is the camera above the ground?

8. A photographer is framing a photo with a triangular border. If the base of the triangle is 6 inches and the height is 4 inches, calculate the area of the border in square inches.

9. A wide-angle lens captures a photo with an angle of view of 90 degrees. If the photo is a perfect square, what is the measure of each angle in the square?

10. A photographer is using a rectangular lens filter with dimensions 3 inches by 2 inches. Determine the filter's perimeter in inches.