



# Pennsylvania's Elk Range: Going the Distance Worksheet

Part of being Elk Smart is to keep a distance of 100 yards between you and the elk. Elk are wild animals that are unpredictable and sometimes aggressive, especially during the fall breeding season. Cows are also known to defend their young when they feel threatened. In this exercise, you will gain a better understanding of a 100-yard distance. **Note:** Part 2 requires an area large enough that students can walk 100 yards. Students should only walk in areas that are safe and while under adult supervision.

**Directions:** Complete parts 1-4 of the worksheet.

## Part 1.

People should stay a minimum of 100 yards away from elk. How far is that in inches, feet, centimeters, meters, and miles?

300 Feet  
3,600 Inches  
9,144 Centimeters  
91.44 Meters  
0.0568 Miles

| 1 Yard=  |             |
|----------|-------------|
| 3        | Feet        |
| 36       | Inches      |
| 91.44    | Centimeters |
| 0.9144   | Meters      |
| 0.000568 | Miles       |

|           |        |            |
|-----------|--------|------------|
| 100 yards | 3 feet | = 300 feet |
|           | 1 yard |            |

|           |           |                |
|-----------|-----------|----------------|
| 100 yards | 36 inches | = 3,600 inches |
|           | 1 yard    |                |

|           |                   |                     |
|-----------|-------------------|---------------------|
| 100 yards | 91.44 Centimeters | = 9,144 centimeters |
|           | 1 yard            |                     |

|           |               |                |
|-----------|---------------|----------------|
| 100 yards | 0.9144 meters | = 91.44 meters |
|           | 1 yard        |                |

|           |             |                |
|-----------|-------------|----------------|
| 100 yards | 0.000568 mi | = 0.0568 miles |
|           | 1 yard      |                |

## Part 2.

The length of a football field is 100 yards. This is a good reference to help you picture what a 100-yard distance looks like. From a starting point walk to where you think is 100 yards. Next, to get a better sense of what a 100-yard distance looks like, use a tape measure to measure 100 yards from a starting point and place an object at the 100-yard distance. Return to the starting point and observe the object. Be sure to retrieve your object after you finish observing.



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## Part 3.

An elk can run up to 30 miles per hour for short distances. Determine the time it would take an elk running at top speed to go the following distances. Round to the nearest tenth and record your results in the chart below. Show your work.

| Distance (yards) | Time (seconds) |
|------------------|----------------|
| 15               | 1.0            |
| 25               | 1.7            |
| 100              | 6.8            |

|          |             |          |            |            |                     |
|----------|-------------|----------|------------|------------|---------------------|
| 15 yards | 0.000568 mi | 1 hour   | 60 minutes | 60 seconds | = 1.0224<br>seconds |
|          | 1 yard      | 30 miles | 1 hour     | 1 minute   |                     |

|          |             |          |            |            |                    |
|----------|-------------|----------|------------|------------|--------------------|
| 25 yards | 0.000568 mi | 1 hour   | 60 minutes | 60 seconds | = 1.704<br>seconds |
|          | 1 yard      | 30 miles | 1 hour     | 1 minute   |                    |

|           |             |          |            |            |                       |
|-----------|-------------|----------|------------|------------|-----------------------|
| 100 yards | 0.000568 mi | 1 hour   | 60 minutes | 60 seconds | = 6.815988<br>seconds |
|           | 1 yard      | 30 miles | 1 hour     | 1 minute   |                       |

## Part 4.

Why do you think it is important to keep a minimum distance of 100 yards between you and elk?