

Marvelous Meaningful Monthly Math

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Central Area Tech Prep, Mitchell Technical Institute, and Bridges

Law, Public Safety, Corrections and Security January

Career – Criminal Prosecutor

Math Activity

As a criminal prosecutor, you are trying a case in which an impaired driver is accused of hitting a woman riding a bicycle. It's important that the jury understand exactly how the accident happened. Since you can't take the jury to the scene of the accident, you will have to provide a scale drawing of the scene.

The motorist was driving in the right-hand lane but veered into the bicycle lane. The cyclist was riding 2 feet from the curb. Upon impact, the cyclist was thrown from the bicycle and collided with a stone fence 10 feet from the curb. The bicycle was found 6 feet away to the northeast. The car moved another 67 feet before stopping.

Decide what scale you will use in your drawing. For example, you could use a scale of 1 inch equals 10 feet. (Hint: use the same type of scaling measurements as you see on maps.) Now using the scale that you have decided upon, determine the following scaled measurements for your drawing:

1. Distance of cyclist from curb prior to accident
2. Total distance cyclist is thrown
3. Distance that car moves before stopping
4. Location of bicycle after the accident

Name _____ School _____ Teacher _____