

Name: _____

Date: _____

HW # 13a: Algebra 1 - Standard 8 - Literal Equations

5 points

Use Dimensional Analysis to evaluate each. Show the work that justifies your answers.

- 26. EUROS** Trent purchases 44 euros worth of souvenirs while on vacation in France. If \$1 U.S. = 0.678 euros, find the cost of the souvenirs in United States dollars.

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- 28. TRACK** If a track is 400 meters around, how many laps around the track would it take to run 3.1 miles? Round to the nearest tenth. (*Hint:* 1 foot = 0.3048 meter)

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- 29. BIKING** Imelda rode her bicycle 39 kilometers. If 1 meter = 1.094 yards, find the distance Imelda rode her bicycle to the nearest mile. (*Hint:* 1 mi = 1760 yd)

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- 31. WATER USAGE** Each minute, 8.8 quarts of water flow from a shower. If the average person spends 8.2 minutes in the shower, how many gallons of water will the average person have used after taking five showers?

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- 32. TRAVEL** The swim team is going to finals. If the meet is in 85 days, determine how many seconds there are until the meet.