Physics 100

Name: \_\_\_\_\_

Notes and Practice: Converting Between Units

Example Problem: A car is traveling with a speed of 55mph. What is its speed in m/s?

Why does this method work?

Some basic conversions:

1m/s = 2.24mph	1 foot = 0.305m	1km = 0.62miles	1m = 100cm
1 inch = 2.54cm	1km = 1,000m	1gallon = 128 fluid ounces	1 gallon = 4 quarts
1 mile = 5280 feet			

- 1. 8 feet = \_\_\_\_\_ m
- 2. 15m = \_\_\_\_\_ feet
- 3. A 5km race is \_\_\_\_\_ miles long.
- 4. A 23.6 mile marathon is \_\_\_\_\_ km long
- 5. 16m/s = \_\_\_\_ mph
- 6. 16m/s = \_\_\_\_mph

7. 1 foot = \_\_\_\_\_ cm = \_\_\_\_\_ m

8. 7 quarts = \_\_\_\_\_ gallons = \_\_\_\_\_ fluid ounces

9. 5 hours = \_\_\_\_\_ days = \_\_\_\_\_ weeks

10. 300 feet = \_\_\_\_\_ mile = \_\_\_\_\_ m

11. 5m = \_\_\_\_\_ cm = \_\_\_\_\_ inches = \_\_\_\_\_ feet