## Homework 1.4 Dimensional Analysis

| CONVERSIONS |  |  |  |
| :---: | :---: | :---: | :---: |
| 1 kilometer = 1000 meters | 1 mile $=5280$ feet | 1 gallon $=4$ quarts | 1 ton $=2000 \mathrm{lbs}$ |
| 1 meter = 100 centimeters | 1 yard = 3 feet | 1 quart = 2 pints | 16 pounds = 16 oz . |
| 1 centimeter = 10 millimeters | 1 foot = 12 inches | 1 pint = 2 cups |  |
| 1 mile = 1760 yards | 1 liter = 1000 millimeters | 1 cup = 8 ounces |  |
| 1 year $=365$ days 1 ye | 1 year = 52 weeks | eeks 1 wee | 1 week = 7 days |
| 1 hour $=60$ minutes 1 minute | seconds |  |  |

Convert units using dimensional analysis.

1. 10560 feet into miles
2. 8800 yards into miles
$\square$
3. 2 miles into yards
$\square$
4. 60 inches into feet
$\square$
5. 5 gallons into quarts
6. 9 centimeters into millimeters

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8. 2000 centimeters into meters
9. 60 miles per hour into feet per hour
$\square$
10. 130 meters per second into meters per hour
11. 1100 feet per second into miles per hour
$\square$
12. 53 yards per hour into inches per week

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### 1.4 Answers

12 miles 25 miles 33520 yards 45 feet 520 quarts 690 millimeters 7245 meters 820 meters 9316,800 feet/hour 10468,000 meters/hour 11750 miles/hour 12320,544 inches/week

