

Converting Units within the English System (Unity Fractions)

 We will use the conversion sheet to find convenient equivalencies of units we commonly convert between for other measurements besides length.

Converting Units within the English System – Weight > Example: 42.5 oz= ____ lbs

• Example: 0.68 lbs = ____ oz

Converting Units within the English System - Area

- Example: 6 sq ft = ____ sq in
- Example: 2000 acres = ____ sq mi

Converting Units within the English System – Volume

- Example: $\frac{3}{4}$ gal = ____ c
- Example: 34,500 cu in = ____ cu ft



Try Yourself

▶ 4) A sheet of metal is 4 ft, 6 in by 8 ft, 2 in. Express the area of the sheet in square yards.

Converting Units within the English System - Rates

- Recall: What operation does per mean?
- Example: 243 revolutions per min = ____ rev/sec
- Example: 70 mph = ____ ft/sec

Try Yourself• Your MIG gas flow is set at 35 cubic feet per hour (CFH). What is the gas flow in cubic inches per second?

The Metric System

- What are the base units for:
- Length:
- Weight:
- Volume:
- The Metric System is based on multiples of ten. See the chart of prefixes on your conversion sheet.
- There are also prefixes for extremely large and small measurements beyond kilo- and milli-, but we will focus on the unit closer to the base commonly used.

Converting Units within the Metric System

- Example: 4.6 m = ____ cm = ____ mm
- Example: 800 mg = ____ g = ____ kg













Try Yourself1) 64°F = ____°C 2) 90°C = ____°F