

Worksheet – Unit Conversions 2

Show all work (use a separate sheet of paper if necessary). Put answers in scientific notation indicating the correct number of significant figures.

1. A race horse runs 15 miles. How many furlongs did it run? (1 mile = 8 furlongs)
2. A prize Chihuahua runs 750 rods. How many furlongs did it run? (1 furlong = 4.0×10^1 rods)
3. Jamal has a piece of Bling in his ear that is $\frac{3}{4}$ carat. What is its mass in grams?
(1 carat = 0.200 g)
4. Kyle gives Mr. Patterson a headache. In order to recover, Mr. Patterson takes a 325-milligram aspirin tablet. What is the tablet's mass in grains? (1000 mg = 15.4 grains)
5. Julia has 2.5 pints of milk. How many cups of milk does she have? (1 pint = 2 cups)
6. Christina needs 15 teaspoons of olive oil for a salad dressing. How many tablespoons of olive oil does she need? (3 teaspoons = 1 tablespoon)
7. In 3.25 years, this year's freshmen may have matured into decent human beings. How many months is that?
8. A student on academic probation has 12.0 weeks to make adequate progress. How many hours is that?
9. If the United States has 263,000,000,000 troy ounces of gold on reserve, what is the mass of gold in troy pounds? (12 troy ounces = 1 troy pound)
10. If a bar of silver weighs 50.0 troy ounces, what is the mass of silver in grams?
(1 troy ounce = 31.1 grams)