

Section 5.2: Worksheet
Mass in the Imperial System

1) Calculate the conversions:

a. 24 oz = _____lb

b. 7890 lb = _____tn

c. 54 oz = _____lb _____oz

d. 6lb 2oz = _____oz

e. 4.54 tn = _____lb

f. 654oz = _____lb _____oz

2) What is the total weight, in pounds and ounces of six books on a shelf if they weigh 1 lb 7 oz, 12oz, 1 lb 2 oz, 15 oz, 9 oz, and 1 lb 3oz.

3) A bakery uses a recipe for oatmeal cookies that calls for 1lb 4 oz of flour to make 9 dozen cookies, how many ounces of flour are needed to make 3 dozen cookies?

4) Kris needs to transport 5 slabs of concrete to an apartment work site. If each slab weighs 46 pounds, Kris weighs 195 pounds; and the truck weighs 1.5 tons, what is the total weight of the loaded truck in pounds?

5) Jamie is concerned about the weight that paint might add to a delicate structure he built. He estimates that e needs 1.5 gal of paint and that the structure can withstand 15 lbs of weight. The weight of a particular paint is 9lb/gal. When it dries, the weight is only 5.4lb/gal. Can Jamie paint his structure without having collapse?

6) U-Pick organic blueberries sell for \$20.00 for a 12 pound box

a) How much would 1 pound cost?

b) How much would 12 ounces cost?

7) What is the true cost per pound of a 10 pound box of oranges if the original price of the box was \$12.99 and $\frac{1}{4}$ of them to be thrown away because they were mouldy?

Answers:

1a) 1.5 lbs b) 3.945 tn c) 3 lb 6 oz d) 98 oz e) 9080 lb f) 40 lb 14 oz

2) 6 lb 3) $6\frac{2}{3}$ oz 4) 3425 lb 5) paint weighs: 13.52 lbs so yes Jamie can paint it

6) a. \$1.67/lb b. \$1.25/12 oz 7) \$1.73/lb