

### Math 70 Quiz #3 Answers

- $\frac{4215 \text{ mg}}{1} \times \frac{1 \text{ g}}{1000 \text{ mg}} = \frac{4215}{1000} \text{ g} = \boxed{4.215 \text{ g}}$  (1 g = 1000 mg)
- $\frac{22.5 \text{ km}}{1} \times \frac{1000 \text{ m}}{1 \text{ km}} = \frac{22500}{1} \text{ m} = \boxed{22,500 \text{ m}}$  (1 km = 1000 m)
- $\frac{12 \text{ kg}}{1} \times \frac{2.2 \text{ lbs}}{1 \text{ kg}} = \frac{26.4}{1} \text{ lbs} = \boxed{26.4 \text{ lbs}}$
- $-4 + (-12) = \boxed{-16}$
  - $5.3 + (-9) = \boxed{-3.7}$  (Note that  $9 - 5.3 = 3.7$ )
  - $-17 - (-10) = -17 + 10 = \boxed{-7}$
  - $\frac{1}{3} - (-\frac{2}{5}) = \frac{1}{3} + \frac{2}{5} = \boxed{\frac{11}{15}}$  (Get a common denominator.)
- My favorite rational number is the number 2. (Any number that can be written as a ratio of two integers is a correct answer. Here are a couple other good ones:  $\frac{-4}{51973}$ , 0.52)