

## Math 70 Quiz #2 Answers

1. (a)  $30.68 \times 100,000 = \boxed{3,068,000}$  (Move the decimal right by 5 places)
- (b)  $2.38 - 1.759 = \boxed{0.621}$  (Line up the decimals before subtracting)
- (c)  $12.3 \times 0.6 = \boxed{7.38}$  (The answer will have 2 decimal places since that is the total number of decimal places in the two numbers you are multiplying.)
- (d)  $27 \div 0.6 = \boxed{45}$  (This problem is the same as  $270 \div 6$ , which is easier)

2. Here are a couple of ways to compute this. There are other ways too.

- Tip = 15% of 48 =  $0.15(48) = \$7.20$
- 10% of 48 = 4.80 (Dividing 48 by 10)  
So, 5% of 48 = 2.40 (Half of what we got for 10% of 48)  
  
So, 15% of 48 =  $4.80 + 2.40 = \$7.20$

Either way, you get that  $\boxed{\text{the tip should be } \$7.20.}$

3. Here are a couple of ways to compute this. There are other ways too.

- $\frac{\# \text{ of snickerdoodles}}{\text{total cookies}} = \frac{14}{40} = \frac{7}{20} = 0.35$  (Using division)
- $\frac{\# \text{ of snickerdoodles}}{\text{total cookies}} = \frac{14}{40} = \frac{7}{20} = \frac{35}{100}$  (Rewriting the fraction to have a denom. of 100)

Either way, we can see that  $\boxed{35\% \text{ of the cookies are snickerdoodles.}}$

4. Number of employees named Bob = 26% of 8100 =  $0.26 \times 8100$  or  $\frac{26}{100} \times 8100$

Either way you compute it, you should get that  $\boxed{2106 \text{ employees are named Bob.}}$