

Problem Set

Convert decimal division expressions to fractional division expressions to create whole number divisors.

1. $35.7 \div 0.07$
2. $486.12 \div 0.6$
3. $3.43 \div 0.035$
4. $5,418.54 \div 0.009$
5. $812.5 \div 1.25$
6. $17.343 \div 36.9$

Estimate quotients. Convert decimal division expressions to fractional division expressions to create whole number divisors. Compute the quotients using the division algorithm. Check your work with a calculator and your estimates.

7. Norman purchased 3.5 lb. of his favorite mixture of dried fruits to use in a trail mix. The total cost was \$16.87. How much does the fruit cost per pound?
8. Divide: $994.14 \div 18.9$
9. Daryl spent \$4.68 on each pound of trail mix. He spent a total of \$14.04. How many pounds of trail mix did he purchase?
10. Mamie saved \$161.25. This is 25% of the amount she needs to save. How much money does Mamie need to save?
11. Kareem purchased several packs of gum to place in gift baskets for \$1.26 each. He spent a total of \$8.82. How many packs of gum did he buy?
12. Jerod is making candles from beeswax. He has 132.72 ounces of beeswax. If each candle uses 8.4 ounces of beeswax, how many candles can he make? Will there be any wax left over?
13. There are 20.5 cups of batter in the bowl. This represents 0.4 of the entire amount of batter needed for a recipe. How many cups of batter are needed?
14. Divide: $159.12 \div 6.8$
15. Divide: $167.67 \div 8.1$