



1.6 Decimals: Multiplication

In this worksheet, we will work through some problems involving multiplying decimals together. If you would like further explanation before attempting these problems, links to video descriptions can be found at the end of this worksheet. Starred problems have video solutions.

1 * Compute the following products.

- $3.8 \times 4 = \underline{\hspace{2cm}}$
- $0.43 \times 0.71 = \underline{\hspace{2cm}}$
- $7.3 \times 8.5 = \underline{\hspace{2cm}}$
- $1.04 \times 0.11 = \underline{\hspace{2cm}}$
- $12.3 \times 2.2 = \underline{\hspace{2cm}}$
- $4.91 \times 12.2 = \underline{\hspace{2cm}}$
- $1.214 \times 3.7 = \underline{\hspace{2cm}}$

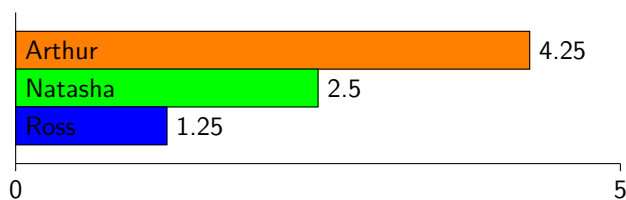
2 It takes 1.5 tanks of gas for Erica to drive from Boston to Manhattan. When Erica has traveled exactly three-tenths of the way, how much gas has she used?

- (a) 0.045
- (b) 0.45
- (c) 1.8
- (d) 4.5

3 The current exchange rate between Euros and American dollars is 0.74 Euros per dollar. If Franz has \$4.25, and he exchanges the dollars into euros, how many Euros will Franz have?

- (a) 5.74
- (b) 5.375
- (c) 4.99
- (d) 3.145

4 * This chart gives the number of cups of coffee each employee drinks per day. If Ross and Natasha are working 3 days each this week and Arthur is working 1 day this week, how many total cups of coffee will they drink this week?



- (a) 8.0
- (b) 13.28
- (c) 15.5
- (d) 21.5



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Additional Resources:

- Khan Academy gives a detailed description of decimal multiplication <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-multiplying-decimals/v/multiplying-decimals>
- A detailed solution to #1: https://www.youtube.com/watch?v=_ln1yyowqjY&list=PLiADMg9o4gHkkZtafnIxRpRuybCBcE23
- A detailed solution to #4: <https://www.youtube.com/watch?v=Wa07WYZbFhw&index=24&list=PLiADMg9o4gHkkZtafnIxR>