

G5-M1-Lesson 9

Note: Adding decimals is just like adding whole numbers—combine like units. Study the examples below:

$$2 \text{ apples} + 3 \text{ apples} = 5 \text{ apples}$$

$$2 \text{ ones} + 3 \text{ ones} = 5 \text{ ones}$$

$$2 \text{ tens} + 3 \text{ tens} = 5 \text{ tens} = 50$$

$$2 \text{ hundredths} + 3 \text{ hundredths} = 5 \text{ hundredths} = 0.05$$

1. Solve.

a. $2 \text{ tenths} + 3 \text{ tenths} = \underline{5} \text{ tenths}$

I'll combine the like units, tenths, to get 5 tenths.

The standard form is $0.2 + 0.3 = 0.5$.

b. $26 \text{ hundredths} + 5 \text{ hundredths} = \underline{31} \text{ hundredths} = \underline{3} \text{ tenths} \underline{1} \text{ hundredths}$

I'll combine the like units, hundredths, and get 31 hundredths.

The standard form is $0.26 + 0.05 = 0.31$.

10 hundredths = 1 tenth
20 hundredths = 2 tenths
30 hundredths = 3 tenths

c. $5 \text{ ones } 2 \text{ tenths} + 4 \text{ tenths} = \underline{56} \text{ tenths}$

I'll combine the like units and get 5 ones 6 tenths, which is the same as 56 tenths.

1 one = 10 tenths
5 ones = 50 tenths

The standard form is $5.2 + 0.4 = 5.6$.

2. Solve using the standard algorithm.

a. $0.3 + 0.91 = \underline{1.21}$

3 tenths + 9 tenths is 12 tenths. I'll record 12 tenths as 1 one and 2 tenths.

b. $75.604 + 12.087 = \underline{87.691}$

$$\begin{array}{r} 75.604 \\ + 12.087 \\ \hline 87.691 \end{array}$$

When setting up the algorithm, I need to be sure to add like units. Therefore I'll line up the tens with the tens, the ones with the ones et cetera.

4 thousandths + 7 thousandths is 11 thousandths. I'll record 11 thousandths as 1 hundredth 1 thousandth.

3. Anthony spends \$6.49 on a book. He also buys a pencil for \$2.87 and an eraser for \$1.15. How much money does he spend altogether?

$\$6.49 + \$2.87 + \$1.15 = \10.51

I'll add all three items together to find the total price.

$$\begin{array}{r} 6.49 \\ 2.87 \\ +1.15 \\ \hline 10.51 \end{array}$$

9 hundredths + 7 hundredths + 5 hundredths is 21 hundredths. I'll record 21 hundredths as 2 tenths 1 hundredth.

4 tenths + 8 tenths + 1 tenth + 2 tenths is 15 tenths. I'll record 15 tenths as 1 one and 5 tenths.

Anthony spends \$10.51.