

OPERATIONS WITH DECIMALS

↳ EXAMPLE 1:

a) $3.14 + 7.25$

When adding or subtracting decimals,
a vertical format is sometimes easier.

$$\begin{array}{r} 3.14 \\ + 7.25 \\ \hline \end{array}$$

NOTE: We MUST line up
the decimal points!

b) $2.1 + 0.003$

↪ EXAMPLE 2:

$$a) 0.091 + (-4) + 3.25$$

$$b) -0.053 - 7$$

↪

EXAMPLE 3:

Solve for x:

$$-0.032 + x = 4.057$$

↪

EXAMPLE 4:

$$(0.7)(0.4)$$

Vertical
Format

⇒

$$\begin{array}{r} 0.7 \\ \times 0.4 \\ \hline \end{array}$$

We can also evaluate $(0.7)(0.4)$ by changing each decimal to a fraction:

$$0.7 = \frac{7}{10}$$

$$0.4 = \frac{4}{10}$$

$$\text{So } (0.7)(0.4) = \left(\frac{7}{10}\right)\left(\frac{4}{10}\right) =$$

↳ example 5:

$$\begin{array}{r} 4.003 \\ \times 6.07 \\ \hline \end{array}$$

← ___ decimal places
← ___ decimal places

So our final answer
will be ___ decimal
places.

↳ example 6:

$$29.25 \div 4.5$$

OPERATIONS WITH DECIMALS

Practice Problems

1. $3.76 + 9.13$

2. $-4 - 0.03$

3. $(0.25)(0.2)$

4. $1.44 \div 1.2$

5. solve for x: $-2.5 + x = 3.14$