

# Adding Decimals

line up decimals

Common mistake



$$18 + 5.12 =$$

<del>5.12</del>	18.00
<del>+ 18</del>	+ 5.12
<del>          </del>	

✓

# Subtracting Decimals

line up decimals

Common mistake



$$19 - 4.11 =$$

<del>4.11</del>	19.00
<del>- 19</del>	- 4.11
<del>          </del>	

✓

# Multiplying Decimals

DON'T line up decimals

Work smarter not harder

$$19 \times 4.11 =$$

19.00	4.11
x 4.11	x 19

✓

Same answer - less amount of time

# Dividing Decimals

First number always goes inside

Place numbers correctly

$$9.43 \div 4.1 =$$

x	✓
2 .	2 .
4.1	4.1
9.43	9.43
- 82	- 82

Move decimal on outside then move the decimal on the inside (same amount)

# Adding Fractions

Find Common  
Denominator

If final answer is improper convert to mixed

$$14\frac{1}{2} + 5\frac{3}{9} =$$
$$14\frac{1 \times 9}{2 \times 9} = \frac{9}{18}$$
$$+ 5\frac{3 \times 2}{9 \times 2} = \frac{6}{18}$$

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✓

Line up vertically  
for easier solving

# Subtracting Fractions

Find Common  
Denominator

Do you need to borrow/regroup?



$$12 - 5\frac{3}{9} =$$

$$11\cancel{12}\frac{9}{9}$$
$$+ 5\frac{3}{9}$$

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✓

Your denominator tells  
you how many units  
make a whole

# Multiplying Fractions

Multiply Across

(Mixed numbers) **HAVE TO BE TURNED INTO IMPROPER!!** BEFORE MULTIPLYING ACROSS

WRONG!!! DON'T DO THIS!

$$1\frac{2}{5} \times 2\frac{4}{5}$$

$$\cancel{2}\frac{8}{25}$$

CONVERT to IMPROPER!

$$1\frac{2}{5} \times 2\frac{4}{5} \quad \checkmark$$

$$\frac{7}{5} \times \frac{14}{5} = \frac{98}{25}$$

# Dividing Fractions

Multiply by the Reciprocal

(Mixed Numbers)

**REWRITE THE PROBLEM**

**BEFORE MULTIPLYING BY RECIPROCAL**

CONVERT to IMPROPER !

$$3\frac{2}{5} \div 1\frac{4}{5}$$

$$\frac{17}{5} \div \frac{9}{5}$$

$$\frac{17}{5} \times \frac{5}{9}$$

## Improper to Mixed

Numerator goes in  
the house

$$\frac{9}{5} \quad \begin{array}{c} \textcircled{1} \\ 5 \mid 9 \\ \hline 4 \end{array} \quad 1\frac{4}{5}$$

Remainder becomes numerator  
Denominator stays the same

## Mixed to Improper

Whole number  $\times$  Denominator  
Add to Numerator  
Denominator stays the same

$$4\frac{1}{2} = \frac{9}{2}$$