Adding and Subtracting Fractions

Mixed Number $4\frac{3}{5}$ | Improper Fraction $\frac{23}{5}$ | Proper Fraction $\frac{3}{8}$

Ignore the whole numbers until the end!
Rewrite the problem without the whole numbers.

1st

Example
Ignore the 2 and 1 $2\frac{4}{5}+1\frac{2}{3} \rightarrow \frac{4}{5}+\frac{2}{3}$

2nd

If adding and subtracting fractions is your game,
the bottom numbers must be the same!

Example $\frac{4}{5}+\frac{2}{3}=$

$\frac{3}{3}\cdot\frac{4}{5}+\frac{2}{3}\cdot\frac{5}{5}$

$\frac{12}{15}+\frac{10}{15}=\frac{22}{15}$

$\frac{4}{5}+\frac{2}{3}=$

$\frac{12}{15}+\frac{10}{15}=\frac{22}{15}$

3rd

Don't forget, if the problem had whole numbers, add/subtract them and include them with your answer!

For example, $2\frac{4}{5}+1\frac{2}{3}=3\frac{22}{15}$

Last

Rewrite if necessary.

$3\frac{22}{15}$ *which can be rewritten as* $4\frac{7}{15}$

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Multiplying Fractions

Mixed Number

$4\frac{3}{5}$

Improper Fraction

$\frac{23}{5}$

Proper Fraction

$\frac{3}{8}$

Convert mixed numbers to improper fractions!

1st

Example $5\frac{4}{6}$ → $\frac{34}{6}$

$6 \times 5 + 4 = 34$

The denominator (bottom number) stays the same!

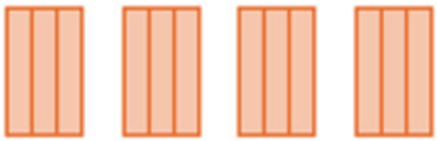
2nd

Multiplying fractions is no big deal,
top times top over bottom times bottom.

Example $\frac{4}{5} \times \frac{9}{7} = \frac{36}{35}$

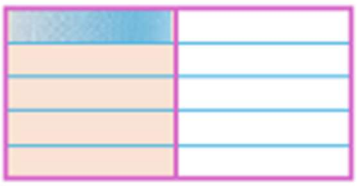
Dividing Whole Numbers and Unit Fractions

$4 \div \frac{1}{3} =$



Answer: 12

$\frac{1}{2} \div 5 =$



Answer: $\frac{1}{10}$

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