

## Multiply by a Unit Fraction by Dividing

### Mental Math Strategy

**When to use this strategy:** Use this strategy when multiplying by a fraction whose numerator (top) is 1.

**How to use this strategy:** Look for an “added” number (or positive number) and a “subtracted” number that end with the same number or numbers. Combine these first. Then add or subtract the remaining numbers.

*Examples:*

Use this (new) strategy on the following:	
1.) $\frac{1}{3} \cdot 60 =$	2.) Seven siblings share an estate of \$6,300. Find one-seventh of \$6,300.
3.) Evaluate $pq$ if $p = 60$ and $p = \frac{1}{20}$	4.) Evaluate $vw$ if $w = -77$ and $v = \frac{1}{11}$

Use any strategy you know on the following:	
5.) How many in 6 dozen eggs?	6.) We have 3 buses which have 33 students on each bus going to the museum. There are also 7 teachers going on the trip. How many total people on the buses?
7.) Evaluate $\frac{(7.6 \times 10^{15})}{(2 \times 10^5)}$	8.) $630 \cdot \frac{1}{70} =$