

Rounding

Estimation Strategy

When to use this strategy: Use this strategy when you only need an estimate and no other estimation strategy is easy to use. Rounding works pretty well with two numbers. Note: we will find that there are other estimation strategies that are often *better* than rounding.

How to use this strategy: To use this strategy, round the numbers (to one or two places/digits) and then perform the operation.

Examples: $289 + 906 + 495 \approx 300 + 900 + 500 = 1700$

Estimate: rs , if $r = 506$ and $s = 39$. $rs \approx (500)(40) = 20,000$

| Use this (new) strategy on the following: | |
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| 1.) Estimate the solution: $513 + 688 + 202 = x$ | 2.) In the recent election, 20,001,100 people voted. If 14,002,230 voted republican, about how many voted democrat? |
| 3.) Estimate the average of the numbers: 52, 39, 91, 20. | 4.) The height of the Willis Tower is 1450 ft. If there are 108 floors, approximately how high is each floor? |

| Use any strategy you know on the following: | |
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| 5.) Five chicken sandwiches have 3025 calories. How many calories does one sandwich have? | 6.) Two squirrels buried 32 acorns in ten minutes. How many acorns can one squirrel bury in ten minutes? |
| 7.) Estimate the solution: $x + 1,083 = 2,978$ | 8.) What is the cost of two shirts when one shirt is \$11.00? |