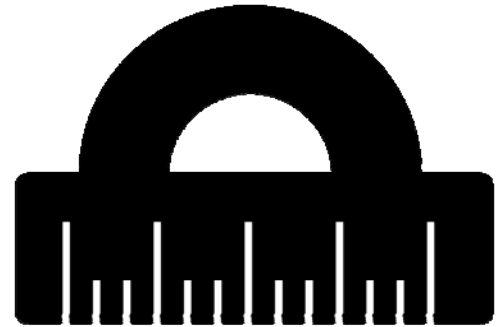


Front End Estimation with Sums and Differences Lesson

Many times when we need to do quick math we can use estimation to help us complete it quickly and relatively accurately. Let's say you ask your friend to go to the store and you have a ten-dollar and twenty-dollar bill in your wallet. It's nice to be able to quickly know which bill you should give them without using a calculator or getting out paper and a pencil.



Estimate the sums below.

A) $45 + 83$

B) $239 + 561$

Estimate the differences below.

C) $82 - 58$

D) $511 - 396$

Step 1) Round the values based on the number of digits it contains.

If the value has two digits, round it to the nearest tens place.

If the value has three digits, round it to the nearest hundreds place.

Another way to approach it is to always round to the highest place value.

If the integer in place value below the highest place value is a 5 or greater, round up. If that integer is 4 or less, round down. Let's apply this:

A) $45 + 83$ >> BECOMES>> $50 + 80 = 130$ (Add the front numbers)

B) $239 + 561$ >> BECOMES>> $200 + 600 = 800$ (Add the front numbers)

C) $82 - 58$ >> BECOMES>> $80 - 60 = 20$ (Subtract the front numbers)

D) $511 - 396$ >> BECOMES>> $500 - 400 = 100$ (Subtract the front numbers)

