5th & 6th grade

Addition & Subtraction

Strategies

Make a Friendly # (+,-)

(Find two numbers that add up to a friendly number)

Example: 50 + 50 = 100

55 + 45 = 100

425 + 575 = 100

Break-Apart- (decompose) (+, -)

(Decompose both #’s into hundreds, tens, ones.

Then add the hundreds, tens, ones. Last add all the

sums)

Example: 2,345 + 3,456 5,000

2,000 + 3,000 = 5,000 700

300 + 400 = 700 50

0 + 50 = 50 + 11

5 + 6 = 11 5,761

Break-apart with subtraction

5,462 – 3,541

5,462 – (3,000 + 500 + 40 + 1)

5,462 – 3,000 = 2,462

2,462 – 500 =1,962

1,962 – 40 = 1,922

1,922 – 1 = 1,921

Think-up ( - )

(Use addition to solve a subtraction problem by adding on.)

Example: 63 -27

Start with the lowest # and add #'s until you reach the higher #.

27 + 3 = 30

30 + 30 = 60

60 + 3 = 63

(add all the jumps to find the answer)

3 + 30 + 3 = 36

Same Difference- ( -)

(Add or subtact the same amount to both the minuend and subtrahend to make the numbers friendlier.)

Example: 2,015 – 997

(add 3 to both #’s)

2018 – 1,000 = 1,018

Compensation (-)

(Subtract an easier amount, then adjust the answer to compensate for the change.)

Example:

3,857 – 992 (+ 8 to make it friendly)

3,857 – 1,000 = 2,857

2,857 + 8 = 2,865 (compensate for subtracting

too much)