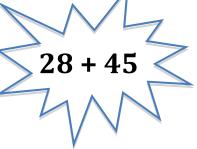
STRATEGIES FOR ADDING SUBTRACTING

ADDITION

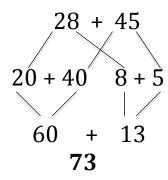


Front end/Splitting both numbers

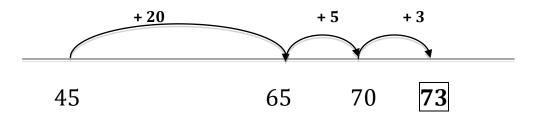
$$20 + 40 = 60$$

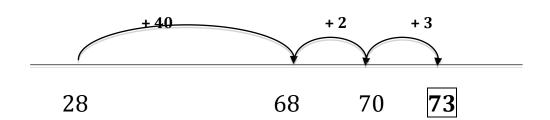
 $8 + 5 = 13$
73

$$20 + 8 + 40 + 5 60 + 13 = 73 (60 + 10 + 3)$$



Keeping One Number Whole, Taking Friendly Jumps (Shown on Open Number Lines)



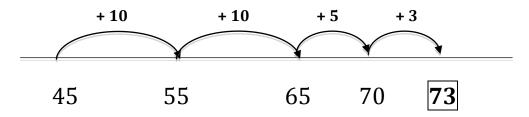


STRATEGIES FOR ADDING, SUBTRACTING

ADDITION continued 28 + 45

Or smaller friendly jumps of 10

(Shown on Open Number Lines)



Compensation

For 28 + 45, think "I know 30 + 45 = 75 I added 2 extra so I need to subtract them": 75 - 2 = 73

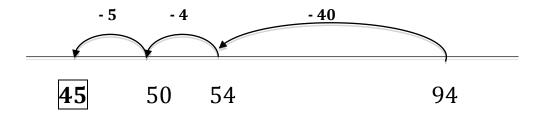
Take 2 from 45 and give it to 28 to make a friendly number (30):

STRATEGIES FOR ADDING SUBTRACTING

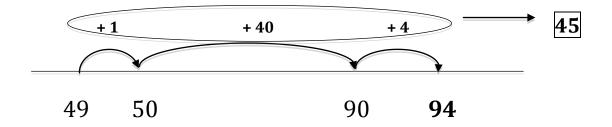


94 - 49

Keeping One Number Whole, Taking Friendly Jumps (Shown on Open Number Lines)



Think addition: $49 + \Box = 94$



Splitting both numbers

94 - 49: There won't be enough ones, so I'll split 94 this way:

$$94 = 80 + 14$$

- $49 = 40 + 9$ Now I can subtract
 $40 + 5 = 45$

STRATEGIES FOR ADDING, SUBTRACTING

Compensation

For 94 - 49, think "I know
$$94 - 50 = 44$$
 I subtracted 1 extra so I need to add it back": $44 + 1 = 45$

Constant Difference

Add 1 to both numbers to make a friendly number (50):

$$94 - 49$$

+1 \downarrow \downarrow +1
 $95 - 50 = 45$