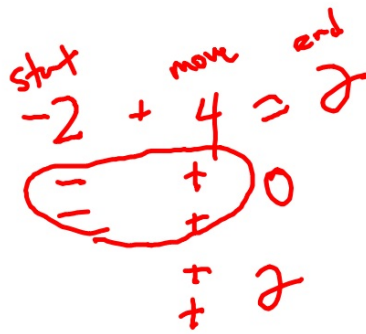
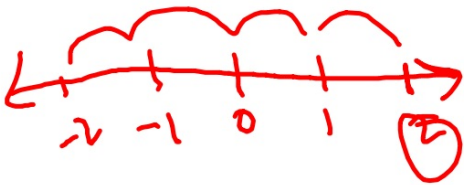


Estimating Before You Add With Negati

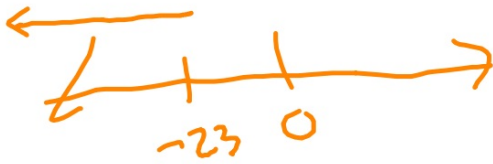
Connect

Adding Strate



I do

$$\begin{aligned} & -25 + 45 \\ & -23 + \cdot \\ & 23 - 45 - \\ & \text{lot -'s} \end{aligned}$$



- estimate
- ✓ ① + or -
  - ② estimate

$$\begin{array}{c} - \\ -70 \end{array} \checkmark$$

I do

$$\begin{array}{r} (-15) + 50 \\ + 15 \\ -16 + \end{array}$$

$$\begin{array}{r} 16^- \quad + 52^+ \\ \vdots \\ \vdots \end{array}$$

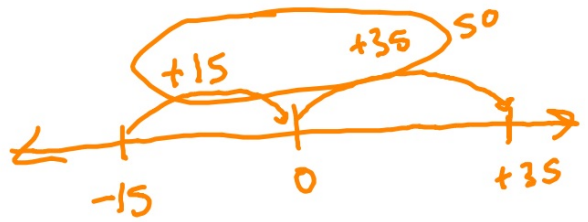
16 0's

+1's left



① + or - +

② estimate +35



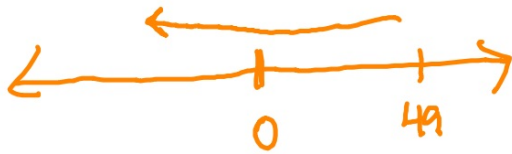
We do 50's 70's 20's

$$50 + (-70)$$

$$49 + (-$$

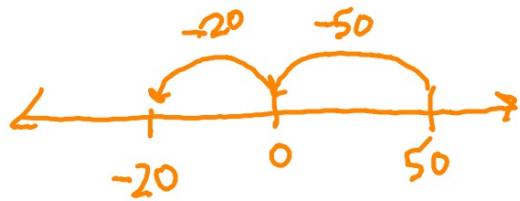
$$49 + 71 - 's$$

$$\boxed{49} \quad \boxed{49}$$



① + or - ? -

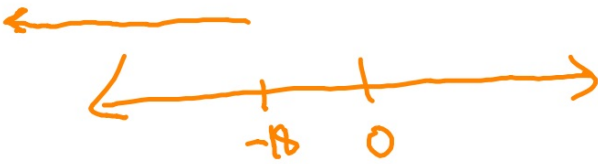
② estimate



We do

$$-18 + (-1)$$

18<sup>-1</sup>s    101<sup>-1</sup>s

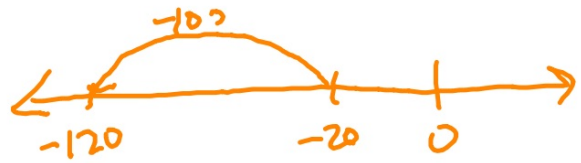


① + or - -

② estimate

-120

$$-20 + -100$$



$$\begin{array}{r} 20^{-1}s \quad 100^{-1}s \\ \quad \quad \quad | \\ \quad \quad \quad 120^{-1}s \end{array}$$

You do together  
on whiteboard

$$-25 +$$

$$-43 + (-$$

Will each sum be positive or negative

What is a reasonable estimate of the sum

You do alone on  
index card

$$-17 + (-$$

$$-60 +$$

Will each sum be positive or negative

What is a reasonable estimate of the sum