

ADDITION STRATEGIES

USE A KNOWN FACT

FACT $2 + 7 = 9$
 so
 $52 + 7 = 59$

Decuple Plus

$260 + 7$

$80 + 5$ $130 + 2$ $470 + 3$ $780 + 9$

It's a Double!

$50 + 50$ $70 + 70$
 $64 + 64$

Near Double

$30 + 31$ $67 + 65$
 $237 + 235$
 $297 + 295$

Partition through the decuple	Bridge the decuple
$68 + 5$ $= 68 + (2 + 3)$ $= 73$	$255 + 7$ $= 255 + (5 + 2)$ $= 262$

Think 10 to add 9

$57 + 9$
 $57 + 10 - 1$

Compensation

$46 + 25 = 50 + 25 - 4 = 71$

Jump Strategy

$37 + 25 = 37 + 10 + 10 + 5 = 62$

37 47 57 62

Split Strategy

$53 + 25$
 $50 + 3 + 20 + 5$
 78

BAR MODEL IT!

87

49 ?

Transformation

$98 + 38$
 $(+2) (-2)$
 Change it to $100 + 36 = 136$

Chimney Sum

47
 $+ 28$
 75

358
 $+ 487$
 845

USE A KNOWN FACT



$$2 + 7 = 9$$

SO

$$52 + 7 = 59$$

Decuple Plus

260

+7



$80 + 5$

$130 + 2$

$470 + 3$

$780 + 9$



It's a Double!

$50 + 50$



$70 + 70$

$64 + 64$

Near Double

$$30 + 31$$

$$67 + 65$$

$$237 + 235$$

$$297 + 295$$



Partition through the decuple

$$\begin{aligned} & 68 + 5 \\ &= 68 + (2 + 3) \\ &= 73 \end{aligned}$$

Bridge the decuple



$$\begin{aligned} & 255 + 7 \\ &= 255 + (5 + 2) \\ &= 262 \end{aligned}$$

Think 10 to add 9



$$57 + 9$$

$$57 + 10 - 1$$

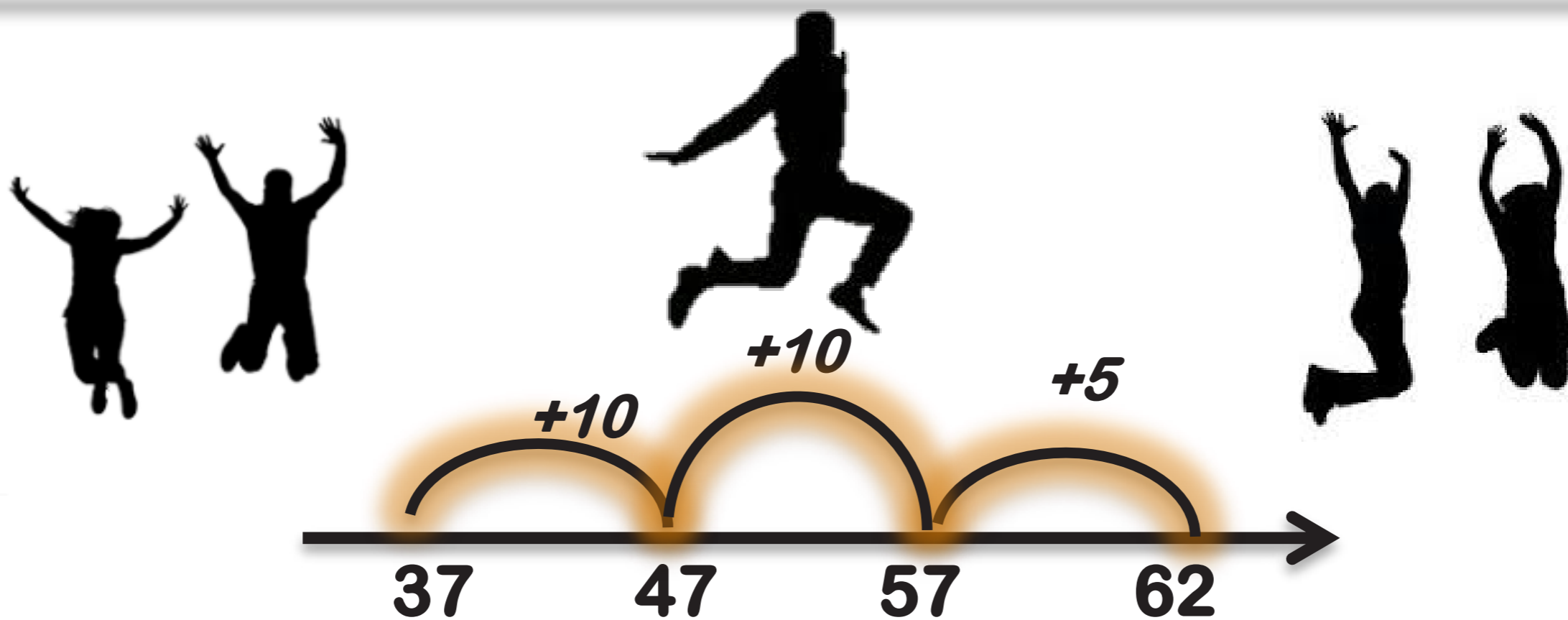
Compensation



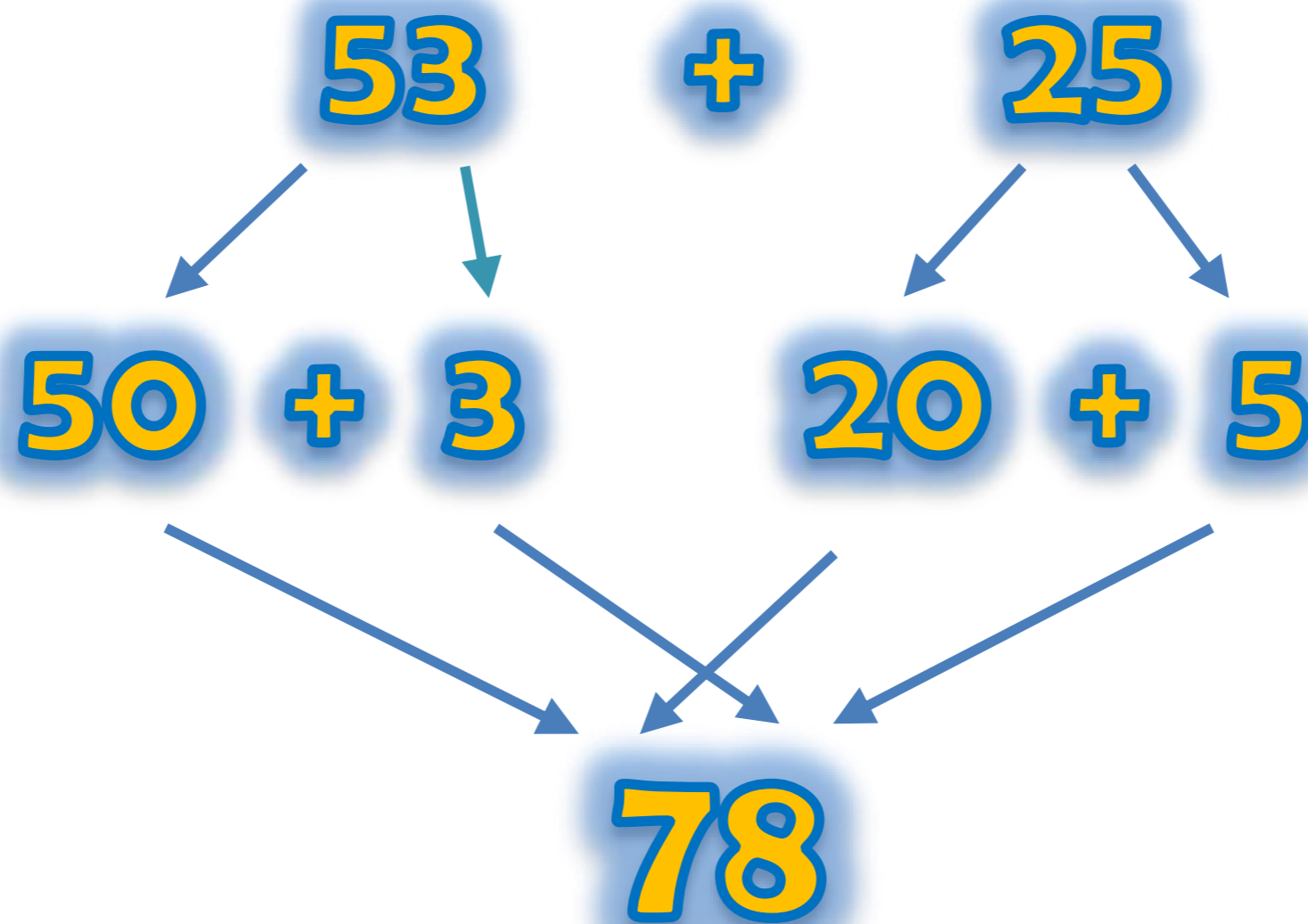
$$46 + 25 = 50 + 25 - 4 = 71$$

Jump Strategy

$$37 + 25 = 37 + 10 + 10 + 5 = 62$$

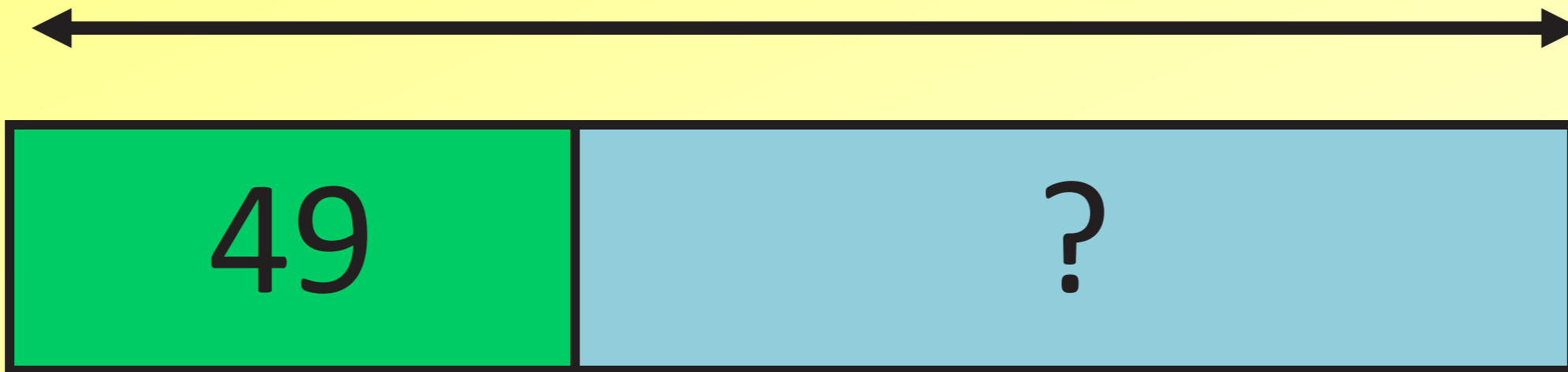


Split Strategy



BAR MODEL IT!

87



Transformation

$$98 + 38$$

$$(+2) (-2)$$

Change it to

$$100 + 36 = 136$$



Chimney Sum



$$\begin{array}{r} 47 \\ + 28 \\ \hline 75 \end{array}$$

$$\begin{array}{r} 358 \\ + 487 \\ \hline 845 \end{array}$$