## Subtraction Across Zeros

You can use place-value charts to subtract across zeros.

Estimate. Then find the difference:

5,004

- 1,286

Estimate: 5,004 $\rightarrow$ 5,000

$$
\frac{-1,286}{3,700}
$$

STEP I In the ones column, $6>4$. Begin regrouping with the thousands.

| Thousends | Hundreds | Tens | Ones |
| :--- | :--- | :--- | :--- |
| 4 | 10 |  |  |
| , | $\varnothing$ | 0 | 4 |
| $\mathbf{I}$, | $\mathbf{2}$ | $\mathbf{8}$ | $\mathbf{6}$ |

STEP 2 Regroup the hundreds

| Thousends | Hundreds | Tens | Ones |
| :--- | :--- | :--- | :--- |
| 4 | $1 \varnothing$ | 10 |  |
| 5, | $\varnothing$ | $\varnothing$ | 4 |
| 1, | 2 | 8 | 6 |

## Mathelpers

STEP 3 Regroup the tens

| Thousends | Hundreds | Tens | Ones |
| :--- | :--- | :--- | :--- |
| 4 | $1 \varnothing$ | $1 \varnothing$ | 14 |
| 5, | $\varnothing$ | $\varnothing$ | 4 |
| 1, | 2 | 8 | 6 |

STEP 4 Subtract

| Thousends | Hundreds | Tens | Ones |
| :--- | :--- | :--- | :--- |
| 4 | ${ }^{9} \varnothing$ | 9 | 14 |
| $\$$, | $\varnothing$ | $\varnothing$ | 4 |
| 1, | 2 | $\varnothing$ | 6 |
| 3, | 7 | 1 | 8 |

Since the estimated difference, 3,700 , is close to the actual answer, 3,718, the answer is reasonable.

Find the difference. 1790-1218 = $\qquad$

| $1,79^{810} 0^{6}$ |
| ---: |
| $-1,218$ |
| 572 |

You need to regroup to subtract the ones

## Examples:

A- Estimate. Then find each difference.
I)

| 506 | 500 |
| ---: | ---: |
| -457 | -500 |
| 49 | 000 |

2) 

| 3,070 | 3,000 |
| ---: | ---: |
| $-1,832$ |  |
| 1,238 | $-2,000$ |
| 1,000 |  |

3) 
4) 

| 5,004 | 5,000 | 8,000 | 8,000 |
| :---: | ---: | ---: | ---: |
| $-1,286$ | $-1,000$ | $-2,480$ | $-2,000$ |
| 3,718 | 4,000 | 5,520 | 6,000 |

B-Find the difference. Tell which method you used.
5)

| 748 |  |
| ---: | ---: |
| -205 |  |
| 543 | 8,165 |
| $-4,823$ |  |
| 3,342 |  |

7) 

| 9,120 | 1,790 |
| :---: | :---: |
| $-3,576$ | $-1,218$ |
| 5,544 | 572 |

## Mathelpers

## C- Problem Solving

9) Kim had 435 cards. He gave away 18 cards. How many cards does he have left?

## $435-118=317$ cards

10) Greta needs 700 tickets for a poster. She has 325 tickets. How many more tickets does Greta need?

## 700-325 =375 more tickets

## My Real Life

There are 359 fish in a large fish tank at a zoo. 200 died. How many are left?


$$
359-200=159 \text { fish }
$$

