Strategies for Solving Addition Problems (page 1 of 5)

There are different ways to solve addition problems.

Adding by Place

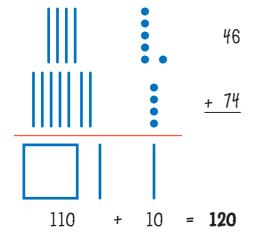
Gina used adding by place to solve this problem.

Bridget went to Sticker Station and bought 46 horse stickers and 74 space stickers. How many stickers did she buy altogether?

Gina's Solution

| First I added the tens. | 40 + 70 = 110 |
|---|-----------------------|
| Then, I added the ones. | 6 + 4 = 10 |
| Then, I put the tens and ones together. | 110 + 10 = 120 |

Gina's solution can also be shown using sticker sketches.



l traded 10 strips for a sheet and 10 singles for a strip, so I have 1 sheet and 2 strips.



Strategies for Solving Addition Problems (page 2 of 5)

Ines and Philip used adding by place when they solved this problem.

258 + 392

They added the hundreds together, the tens together, and the ones together. Their solutions are similar, but they recorded their work differently.

| Ines's Solution | Philip's Solution | | |
|--|---------------------|--|--|
| 200 + 300 = 500 | 258 | | |
| 50 + 90 = 140 | <u>+ 392</u> 500 | | |
| 8 + 2 = 10 | 140 | Ines recorded | |
| 500 + 140 + 10 = 650 | + 10 650 | her solution sideways and Philip recorded his up | |
| | | and down. | |
| How would you solve these problems? 463 | | | |

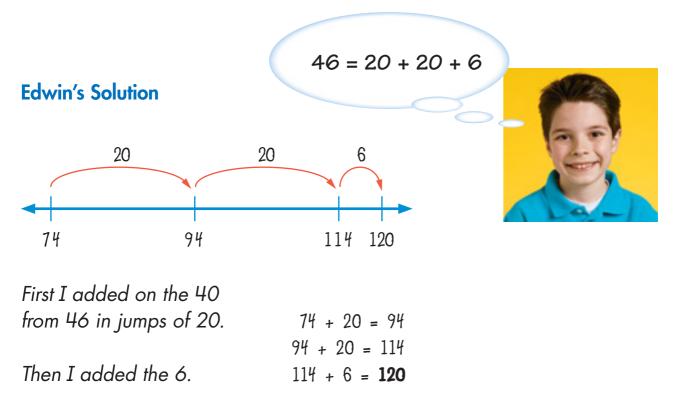
37 + 86 + 279

Strategies for Solving Addition Problems (page 3 of 5)

Adding One Number in Parts

Bridget went to Sticker Station and bought 46 horse stickers and 74 space stickers. How many stickers did she buy altogether?

Edwin solved the problem by starting at 74 on the number line and adding 46 in parts.





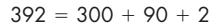
<u>ямн</u> 22 Is there another way you could solve this problem by adding one number in parts?

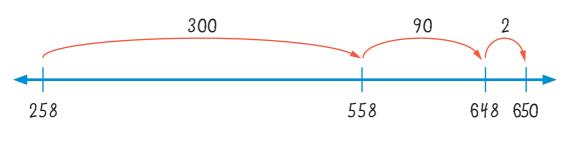
twenty-two

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- 258 Kenji solved this problem by starting at 258
- + 392 and adding 392 in parts.

Kenji's Solution

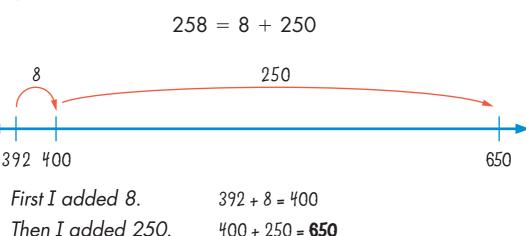




First I added the 300. 258 + 300 = 558 Then I added the 90. 558 + 90 = 648 Then I added the 2. 648 + 2 = **650**

Benjamin solved this problem by starting at 392 and adding 258 in parts.

Benjamin's Solution



SMH

Strategies for Solving Addition Problems (page 5 of 5)

Changing the Numbers

Bridget went to Sticker Station and bought 46 horse stickers and 74 space stickers. How many stickers did she buy altogether?

Kathryn solved this problem by changing one number.

Kathryn's Solution

I added 4 to 46 to make 50. 50 is a "landmark" number, so it's easier for me to work with.

