

Stretch Your Mind

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“I wonder why my teacher said that I can write numbers in another form,” Tara told Lorrie.

“Give your mind a stretch. Think about place values,” suggested Lorrie.

“If I have 2 534 for example, how else do I write that number?” asked Tara.

“Well, if you think about it, there are 2 thousands + 5 hundreds + 3 tens + 4 ones,” said Lorrie.

“Is it not that simply expanding the number?” asked Tara.

“Yes, it is! We changed the standard form of the number to its expanded form,” explained Lorrie.

“So $2\,534 = 2$ thousands + 5 hundreds + 3 tens + 4 ones,” stated Tara.



“Right! And there is another way to expand that number,” mentioned Lorrie.

“Really? What is it?” asked Tara.

You can use the values of each digit in 2 534,” suggested Lorrie.

“I get it! $2\ 534 = 2\ 000 + 500 + 30 + 4$,” said Tara.

“Correct! Stretch your mind some more. Give me the expanded form of 4 307,” tested Lorrie.

“Using place values, 4 307 is equal to 4 thousands + 3 hundreds + 7 ones. It can also be $4\ 000 + 300 + 7$, using the value of each digit,” answered Tara.

“Now, you know how to write numbers in expanded form,” said Lorrie.

“It is great to learn new things. Thanks for helping me, Lorrie,” said Tara gratefully.



Try This!

- I. Expand the following numbers in two ways, using place value and values of each digit.

1. $642 =$ _____
= _____

2. $813 =$ _____
= _____



3. 502 = _____
= _____

4. 7 413 = _____
= _____

5. 2 019 = _____
= _____

6. 9 102 = _____
= _____

7. 3 488 = _____
= _____

II. Write the standard form of the following on the blank before each number.

_____ 1. 8 thousands + 5 hundreds + 9 tens + 2 ones

_____ 2. 6000 + 300 + 50 + 8

_____ 3. 6 tens + 2 thousands + 8 ones + 4 hundreds

_____ 4. 70 + 3 000 + 4 + 200

_____ 5. 900 + 2 000 + 70 + 1

_____ 6. 8 thousands + 7 hundreds + 5 ones + 2 tens

_____ 7. 9 hundreds + 5 tens + 6 thousands

_____ 8. 4 ones + 1 thousand + 7 tens

- _____ 9. $600 + 20 + 1\ 000$
_____ 10. $4 + 800 + 30$
_____ 11. 5 thousands + 2 tens
_____ 12. 9 hundreds + 8 ones
_____ 13. $4\ 000 + 700 + 9$
_____ 14. 15 tens
_____ 15. 28 hundreds

III. Write the following amount in standard form.

1. two 1 000-peso bills + five 100-peso bills

2. three 100-peso bills + two 10-peso coins
+ seven 1-peso coins

3. five 1 000-peso bills + three 100-peso bills
+ one 10-peso coin

4. eight 100-peso bills + nine 1 000-peso bills

5. one 1-peso coin + five 100-peso bills
+ six 1 000-peso bills

ANSWER KEY

- I.
- $642 = 6 \text{ hundreds} + 4 \text{ tens} + 2 \text{ ones}$
 $= 600 + 40 + 2$
 - $813 = 8 \text{ hundreds} + 1 \text{ tens} + 3 \text{ ones}$
 $= 800 + 10 + 3$
 - $502 = 5 \text{ hundreds} + 2 \text{ ones}$
 $= 500 + 2$
 - $7\,413 = 7 \text{ thousands} + 4 \text{ hundreds} + 1 \text{ tens} + 3 \text{ ones}$
 $= 7\,000 + 400 + 10 + 3$
 - $2\,019 = 2 \text{ thousands} + 1 \text{ tens} + 9 \text{ ones}$
 $= 2\,000 + 10 + 9$
 - $9\,102 = 9 \text{ thousands} + 1 \text{ hundreds} + 2 \text{ ones}$
 $= 9\,000 + 100 + 2$
 - $3\,488 = 3 \text{ thousands} + 4 \text{ hundreds} + 8 \text{ tens} + 8 \text{ ones}$
 $= 3\,000 + 400 + 80 + 8$

- II.
- 8 592
 - 6 358
 - 2 468
 - 3 274
 - 2 971
 - 8 725
 - 6 950
 - 1 074
 - 1 620
 - 834
 - 5020
 - 908
 - 4709
 - 150
 - 2800

- III.
- Php 2 500
 - Php 327
 - Php 5 310
 - Php 9 800
 - Php 6 501