

The MathLesson 36

Lesson 36 - Place values

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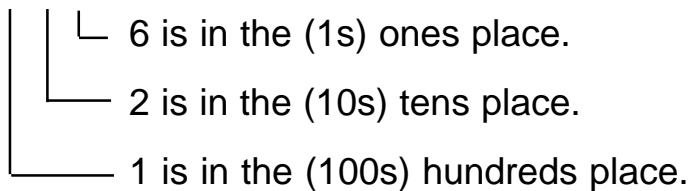
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Place value is name of the position a number has in a big number. Take for example the number 126.

1 2 6



Why? because 126 is made up of 100 plus 20 plus 6.

$$126 = 100 + 20 + 6$$

Any number can be broken down into pieces that are single digits, two digits, three digits. So the first digit of a number from the right is in the ones place, the second is in the tens place and so on.

Could we have called these places by some other number such as 2s place, 20s place and 400s place? Yes we could have but we use ones, tens and hundreds because it is easier.

What is in the thousands place for number 674?

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Name the place value of these numbers.

437

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

680

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

905

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

73

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

455

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

97

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

60

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

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1003

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

Which number is in thousands place? _____

1280

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

Which number is in thousands place? _____

4330

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

Which number is in thousands place? _____

1173

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

Which number is in thousands place? _____

17455

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

Which number is in thousands place? _____

43597

Which number is in ones place? _____

Which number is in tens place? _____

Which number is in hundreds place? _____

Which number is in thousands place? _____

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4357		
Which number is in thousands place?	_____	
Which number is in hundreds place?	_____	
Which number is in tens place?	_____	
Which number is in ones place?		_____
1120		
Which number is in thousands place?	_____	
Which number is in hundreds place?	_____	
Which number is in tens place?	_____	
Which number is in ones place?		_____
2333		
Which number is in thousands place?	_____	
Which number is in hundreds place?	_____	
Which number is in tens place?	_____	
Which number is in ones place?		_____
1000		
Which number is in thousands place?	_____	
Which number is in hundreds place?	_____	
Which number is in tens place?	_____	
Which number is in ones place?		_____
13455		
Which number is in thousands place?	_____	
Which number is in hundreds place?	_____	
Which number is in tens place?	_____	
Which number is in ones place?		_____
34568		
Which number is in thousands place?	_____	
Which number is in hundreds place?	_____	
Which number is in tens place?	_____	
Which number is in ones place?		_____

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Underline the correct number.

Which number is in tens place? 4 3 5 6

Which number is in hundreds place? 8 3 7 3

Which number is in ones place? 2 3 6 0

Which number is in thousands place? 5 5 7 3

Which number is in hundreds place? 8 2 5 2

Which number is in ones place? 2 3 6 7

Which number is in thousands place? 7 5 7 3

Which number is in tens place? 5 3 6 9

Which number is in hundreds place? 2 1 2 0

Which number is in ones place? 4 2 5 6

Which number is in hundreds place? 3 9 9 0

Which number is in tens place? 1 3 5 7

Which number is in thousands place? 8 3 9 0

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Breakdown a number in pieces.

230 is made up of 200 and 30

$$230 = 200 + 30$$

450 is made up of 400 and 50

$$450 = 400 + 50$$

Breakdown these number in hundreds and tens.

$$240 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$310 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$760 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$550 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$920 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$440 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$110 = \underline{\quad\quad} + \underline{\quad\quad}$$

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Breakdown a number in pieces.

234 is made up of 200 and 30 and 4

$$234 = 200 + 30 + 4$$

453 is made up of 400 and 50 and 3

$$450 = 400 + 50 + 3$$

Breakdown these number in hundreds and tens and ones.

$$241 = \underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad}$$

$$314 = \underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad}$$

$$765 = \underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad}$$

$$558 = \underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad}$$

$$923 = \underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad}$$

$$442 = \underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad}$$

$$112 = \underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad}$$

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Breakdown these number in thousands, hundreds and tens and ones.

$$3214 = 3200 + 200 + 10 + 4$$

$$4240 =$$

$$4301 =$$

$$3012 =$$

$$1003 =$$

$$1200 =$$

$$2301 =$$

$$4444 =$$

$$6000 =$$

$$3210 =$$

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Underline the correct number.

Which number is in tens place? 4 3 5 6

Which number is in ones place? 4 3 7 3

Which number is in ones place? 2 3 6 0

Which number is in thousands place? 5 5 7 3

Which number is in tens place? 8 2 5 2

Which number is in hundreds place? 2 3 6 7

Which number is in tens place? 7 5 7 3

Which number is in tens place? 5 3 6 9

Which number is in tens place? 2 1 2 0

Which number is in ones place? 4 2 5 6

Which number is in ones place? 3 9 9 0

Which number is in tens place? 1 3 5 7

Which number is in hundreds place? 8 3 9 0

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Underline the correct number.

Which number is in tens place?

3 8 5 6

Which number is in thousands place?

4 3 7 3

Which number is in ones place?

2 3 6 0

Which number is in thousands place?

5 5 7 3

Which number is in thousands place?

2 3 6 7

Which number is in tens place?

7 5 7 3

Which number is in ones place?

5 3 6 9

Which number is in tens place?

2 1 2 0

Which number is in ones place?

4 2 5 6

Which number is in hundreds place?

3 9 9 0

Which number is in hundreds place?

1 3 5 7

Which number is in ones place?

8 3 9 0

Which number is in tens place?

1 0 0 0

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Breakdown these number in thousands, hundreds and tens and ones.

$$3214 = 3200 + 200 + 10 + 4$$

$$2387 =$$

$$2850 =$$

$$2300 =$$

$$2795 =$$

$$9573 =$$

$$4978 =$$

$$6704 =$$

$$7564 =$$

$$9886 =$$

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Breakdown these number in thousands, hundreds and tens and ones.

$$40 = 0 + 0 + 40 + 0$$

$$238 = 0 + 200 + 30 + 8$$

$$2 =$$

$$123 =$$

$$1123 =$$

$$347 =$$

$$3760 =$$

$$499 =$$

$$2399 =$$

$$922 =$$

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Multiplying - a new way.

Multiplying 234 by 2

1. The usual way

$$\begin{array}{r} 234 \\ \times 2 \\ \hline 468 \end{array}$$

2. We can break the number in smaller pieces, multiply each piece by 2 and then add everything together.

$$\begin{array}{r} 230 = 200 + 30 + 4 \\ 200 \times 2 = \quad 400 \\ 30 \times 2 = \quad 60 \\ 4 \times 2 = \quad \underline{8} \\ \quad \quad 468 \end{array}$$

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Multiply the number by first breaking it into 3 pieces, then multiplying and adding the number together.

1. $214 \times 2 =$

$$214 = 200 + 10 + 4$$

2. $402 \times 2 =$

$$402 =$$

3. $432 \times 2 =$

$$432 =$$

4. $214 \times 2 =$

$$214 =$$

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Multiply the number by first breaking it into 3 pieces, then multiplying and adding the number together.

$$1. 422 \times 2 =$$

$$422 =$$

$$2. 123 \times 2 =$$

$$123 =$$

$$3. 234 \times 2 =$$

$$234 =$$

$$4. 235 \times 2 =$$

$$235 =$$

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Multiply the number by first breaking it into 3 pieces, then multiplying and adding the number together.

1. $434 \times 2 =$

$434 =$

2. $435 \times 2 =$

$435 =$

3. $440 \times 2 =$

$440 =$

4. $208 \times 2 =$

$208 =$

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Multiply the number by first breaking it into 3 pieces, then multiplying and adding the number together.

$$1. 436 \times 2 =$$

$$436 =$$

$$2. 208 \times 2 =$$

$$208 =$$

$$3. 307 \times 2 =$$

$$307 =$$

$$4. 470 \times 2 =$$

$$470 =$$

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Multiply the number by first breaking it into 3 pieces, then multiplying and adding the number together.

1. $237 \times 2 =$

$237 =$

2. $250 \times 2 =$

$250 =$

3. $255 \times 2 =$

$255 =$

4. $315 \times 2 =$

$315 =$

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Multiply the number by first breaking it into 3 pieces, then multiplying and adding the number together.

1. $510 \times 2 =$

$510 =$

2. $612 \times 2 =$

$612 =$

3. $444 \times 2 =$

$444 =$

4. $235 \times 2 =$

$235 =$

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Multiply the number by first breaking it into 3 pieces, then multiplying and adding the number together.

1. $240 \times 2 =$

$240 =$

2. $250 \times 2 =$

$250 =$

3. $350 \times 2 =$

$350 =$

4. $450 \times 2 =$

$450 =$