$>$ I count in multiples of 10000 from 249. I say the number 30248 .

True or false?

Explain your answer.

> I count in multiples of 10 backwards from 90273. I say the number 80953.

True or false?
Explain your answer.
> If I count in tens, I will say the number 15100.

True or false?

Explain your answer.

## True or false?

Number and place value

$>$ I have created a 6 -digit number where the ones digit is 4 and the thousands digit is 3 .

$$
53724
$$

True or false?
Explain your answer.

L Look at the sequence. Can you spot the mistake and correct it?

456123 , 456 223, 456213,456433

Explain how you know.

Spot the mistake

Number and place value

5

Look at the sequence. Can you spot the mistake and correct it?

875 231, 775 231, 765 231, 575231

Explain how you know.

Spot the mistake

Number and place value

Glena has ordered her numbers starting from the greatest to the smallest. Has she made a mistake?


Explain how you know.

Spot the mistake
$>$ Look at the number sentences. Are there any mistakes?

$$
14862-2200=12662
$$

$$
14862+2200=16660
$$

Explain how you know.

Spot the mistake
$>$ Look at the number sentences. Are there any mistakes?
$3,000,042-1,000,000=2,000,041$
$3,000,042+1,000,000=4,000,041$

Explain how you know.


# - A 5 - digit number will always have a digit in the millions. 

Always, sometimes or never true?

## Prove your answer.

## Always, sometimes or never true?

Number and place value
$>$ If you add 500000 to any even number, the number will be odd.

Always, sometimes or never true?

Prove your answer.

## Always, sometimes or never true?

Number and place value
> Adding 10, 000 ten times to a number in the millions, will increase the millions digit.

Always, sometimes or never true?

Prove your answer.
$>$ If you wrote these numbers in order starting with the greatest, which number would be fourth? Explain how you know.
677777
625014

625019
675019
675014

How do you know?
$>$ If you wrote these numbers in order starting with the greatest, which number would be fourth? Explain how you know.

$$
677777 \quad 625014
$$

625719

$$
675079 \quad 675014
$$

> A number rounded to the nearest thousand is 56000. What is the largest possible number it could be?

Explain how you know.

I count in multiples of 10000 from 249. I say the number 30248.


Explain your answer.
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True or false?

I count in multiples of 10000 from 249 . I say the number 30248.

True $\square$ False


Explain your answer.


I count in multiples of 10000 from 249 . I say the number 30248.

True $\square$ False $\square$
Explain your answer.


I count in multiples of 10000 from 249 . I say the number 30248.

True $\square$ False


Explain your answer.


I count in multiples of 10 backwards from 90273 . I say the number 80953.


Explain your answer.

## True or false?

I count in multiples of 10 backwards from 90273 . I say the number 80953.

True $\square$ False


Explain your answer.


Explain your answer.


If I count in tens, I will say the number 15100.

True


Explain your answer.


If I count in tens, I will say the number 15100.


Explain your answer.


If I count in tens, I will say the number 15100.

True


Explain your answer.
True or false?

I have created a 6 -digit number where the ones digit is 4 and the thousands digit is 3 .

53724


Explain your answer.

I have created a 6 -digit number where the ones digit is 4 and the thousands digit is 3 .


Explain your answer.


## True or false?

I have created a 6 -digit number where the ones digit is 4 and the thousands digit is 3 .


Explain your answer.

| Look at the sequence. Can you spot the mistake and |
| :--- |
| correct it? |
| 456123,456 223, 456213,456433 |
| Explain the mistake. |
| Spot the mistake |
| goodsufferimanyresoures on |



Look at the sequence. Can you spot the mistake and correct it?

456123 , 456 223, 456213 , 456433
Explain the mistake.

Look at the sequence. Can you spot the mistake and correct it?

456123 , 456 223, 456213,456433
Explain the mistake.



Explain the mistake.


Glena has ordered her numbers starting from the greatest to the smallest. Has she made a mistake?

Explain your answer.


## Spot the mistake



Glena has ordered her numbers starting from the greatest to the smallest. Has she made a mistake?

Explain your answer.

356, 678


56, 678
56, 676


Glena has ordered her numbers starting from the greatest to the smallest. Has she made a mistake?

Explain your answer.



Glena has ordered her numbers starting from the greatest to the smallest. Has she made a mistake?

Explain your answer.



Look at the number sentences. Are there any mistakes? Explain your answer.
$14862-2200=12662$
$14862+2200=16660$


Look at the number sentences. Are there any mistakes? Explain your answer.
$14862-2200=12662$
$14862+2200=16660$

## Spot the mistake

Look at the number sentences. Are there any mistakes?
Explain your answer.

$$
\begin{aligned}
& 14862-2200=12662 \\
& 14862+2200=16660
\end{aligned}
$$

## Spot the mistake



Look at the number sentences. Are there any mistakes? Explain your answer.

$$
\begin{aligned}
& 3,000,042-1,000,000=2,000,041 \\
& 3,000,042+1,000,000=4,000,041
\end{aligned}
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If you add 500000 to any even number, the number will be odd.

Prove it.


If you add 500000 to any even number, the number will be odd.

Prove it.

If you add 500000 to any even number, the number will be odd.

Prove it.


A 5-digit number will always have a digit in the millions.
$\square$ Always true $\square$ Sometimes true
$\square$ Never true
Prove it.

## Always, sometimes or never true?



A 5-digit number will always have a digit in the millions.
$\square$ Always true $\square$ Sometimes true $\square$ Never true Prove it.

A 5-digit number will always have a digit in the millions.Always true $\square$ Sometimes true $\square$ Never true Prove it.
 $\square$


A 5 -digit number will always have a digit in the millions. $\square$ Always true $\square$ Sometimes true $\square$ Never true Prove it.

Adding 10, 000 ten times to a number in the millions, will increase the millions digit.
Always true $\square$ Sometimes true $\square$ Never true Prove it.
 Sometimes true $\square$ Never true increase the millions digit.

## Prove it.

Always true $\square$
Adding 10, 000 ten times to a number in the millions, will

## Always, sometimes or never true?


$\rightarrow 5$
Adding 10, 000 ten times to a number in the millions, will increase the millions digit.

$\square$
Always true $\square$ Sometimes true $\square$ Never true


Adding 10, 000 ten times to a number in the millions, will increase the millions digit.
$\square$ Always true $\square$ Sometimes true $\square$ Never true
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$$
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$$

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If you wrote these numbers in order starting with the greatest, which number would be fourth?

Explain how you know.
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A number rounded to the nearest thousand is 56000 . What is the largest possible number it could be?

How do you know?

A number rounded to the nearest thousand is 56000 . What is the largest possible number it could be?

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How do you know?

