WALT use given digits to solve problems.

WILF:

- Use your place value columns.
 Re-arrange digits to solve problems
 Practise rounding to create the smallest and largest numbers possible.



Today you will be using given digits to solve problems.

I would like you to use your place value columns to help you.

Uhoa.

| Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
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Here are six digits. We are going to find the smallest and largest number possible.



To find the largest number, you need the largest numbers to the left.

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To find the smallest number, you need the smallest numbers to the left.

Have a go!

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Here are six digits. We are going to find the smallest and largest number possible.

8



Largest:

| Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|-------------------|---------------|-----------|----------|------|------|
| 9 | 8 | 5 | 2 | 1 | 0 |

5

2





Smallest:

| Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|-------------------|---------------|-----------|----------|------|------|
| 0 | 1 | 2 | 5 | 8 | 9 |



each need to round down where Hundred Thousands Ten Thousands Hundreds Tens Ones possible, to reach the smallest number. Remember your rounding rules - if it's closer than the half way point to ten, it goes up, below (4 and under) goes down. Have a go. ☺

What is the smallest possible number that rounds to 180,000?

9

8



Here is the answer:

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If you were rounding up, what could you do?

| Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|----------------------|------------------|-----------|----------|------|------|
| 1 | 8 | 0 | 2 | 5 | 9 |

5

2

The most important thing is to read the question carefully, then think about where each digit can be placed in place value columns to reach the number asked for.

Try to give a reason for each of your choices - example: This is the largest odd number because the ones digit is odd, and x is the smallest number that could be placed in the x column.

Please challenge yourself. You can use up to 7 digits (million) if you like.

Using these strategies, please try today's activity. ©



as close to the target number as possible

0 1 2 3 4 5 6 7 8 9

The idea is to arrange these digits in the five boxes to make four-digit numbers

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Whoa.

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