



© Can I round numbers up to a million to the nearest 10; 100; 1,000; 10,000 and 100,000?

Connect 3 Game 1

When rounding her number to the nearest 1,000, Gita's number rounded to 3,000.
What is the lowest number she could have had?

Ben says, "I cannot round 423 to the nearest 1,000".
Is he right?
Why or why not?

Use the digits below to create numbers that would round to every multiple of 1,000 up to 10,000.

1 2 3 4 5 6 7 8 9

Which number is closest to 7,000?

7,009 6,989

6,990 7,109

Talk to a partner and work on a clear explanation for the rules of rounding to the nearest 10, 100 and 1,000.



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Connect 3 Game 2

When rounding to the nearest 1,000, Sanjay's number rounded to 5,000.

How many possible numbers could he have had?

What is the purpose of rounding?

Are there situations where rounding is not appropriate?

Match these statements to the numbers:

- "To the nearest 1,000, my number rounds to 12,000."
- "To the nearest 10, my number rounds to 11,980."
- "My number has nine hundreds."

11,989 11,984 12,900

Give three examples of numbers that would round to the multiples of one million below:

1,000,000 5,000,000
8,000,000 10,000,000

What would it be sensible to round the following to?

1. The attendance at a Premier League match?
2. The number of searches on google per day in the UK?
3. The number of children in your school?



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Connect 3 Game 3

Create a representation or display to help a person understand how to round to the nearest 10,000.

I have two 5-digit numbers that when rounded to the nearest 100,000 round to 200,000.

What is the lowest number that I could use for one of the 5-digit numbers?

My number is 15,000 when rounded to the nearest thousand.

Your number is 100,000 when rounded to the nearest 10.

What could be the greatest difference between our two numbers?

How many numbers less than 1,000,000 would round to this number when rounded to the nearest 100,000?

Tanisha chose 3 digit cards. Each card showed a different single digit.

Tanisha says: "If I rearrange all or some of these digits, I can create numbers that when rounded to the nearest 100, will round to 100, 200, 300, 500, 600, 800, 900."

Can you suggest which digits Tanisha might have?