

RECALL

How many different ways can you
round this number?

4,356,987

help

Use a place value chart.



Answer. Prove. Explain

RECALL

How many different ways can you round this number?

4,356,987

10 → 4,356,990

100 → 4,357,000

1000 → 4,357,000

10,000 → 4,360,000

100,000 → 4,400,000

1,000,000 → 4,000,000

help

Use a place value chart.



Answer. Prove. Explain

L.O. TO ROUND ANY WHOLE NUMBER TO A REQUIRED DEGREE OF ACCURACY.

- **SOME WILL EVEN:** Be able to identify minimum and maximum numbers that round to a given number.
- **SOME WILL:** Round the same number in various ways.
- **MOST WILL:** Use a number line to help round.
- **ALL WILL:** Identify given place value when rounding.

EXPLORE



7,463,116

7,504,223

7,494,881

To the nearest hundred thousand, my number rounds to 7,500,000



Rhia

Sky



To the nearest million, my number rounds to seven million

To the nearest ten thousand, my number rounds to seven and half million



Charlie

- a) Can you figure out which number belongs to which child? Is there more than one solution?
- b) Miss Curry says her number round to the nearest million to make eight million. Charlie says Miss Curry has chosen same number as him. True or false?

help

Use a number line.

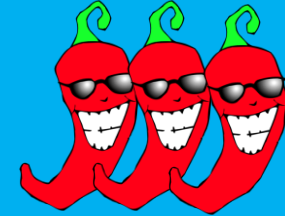


Which number rounds to make the largest number??? Prove it!

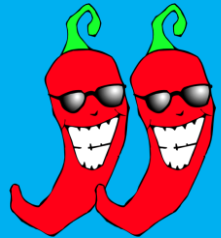
Intelligent Practice



Number	Rounds to 2,900,000	Rounds to 3,000,000
2,858,790		
3,015,830		
2,945,745		



Which two numbers will round to the same value when rounded to the nearest 100,000?



Number	Rounds to 4,900,000	Rounds to 5,000,000
4,896,344		
4,995,051		
5,003,688		

a

Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
● ● ●	● ●		●	● ● ●	● ●	

b

3,278,568

c

Three million, one hundred and fifty thousand and seven

Complete the place value chart so that it rounds to 400 000 when rounded to the nearest 100 000 and 10 000.

M	HTh	TTh	Th	H	T	O
			● ● ● ●	● ● ● ● ● ● ● ●	● ● ●	● ● ●

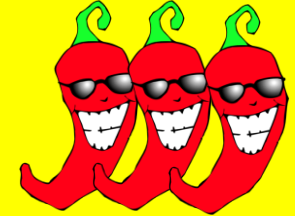


CHALLENGE!

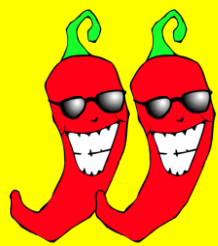
Intelligent Practice



Number	Rounds to 2,900,000	Rounds to 3,000,000
2,858,790	✓	
3,015,830		✓
2,945,745	✓	



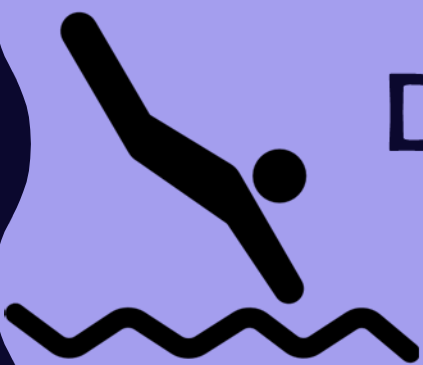
A and C



Number	Rounds to 4,900,000	Rounds to 5,000,000
4,896,344	✓	
4,995,051		✓
5,003,688		✓



M	HTh	TTh	Th	H	T	O
	●●●●		●●●●	●●●●●●●● ●●●	●●●	●●●



DIVE DEEPER 1

1)

A reading book has approximately 22 words on each line.
Each page has approximately 38 lines.
The book has 479 pages.

Using rounding, can you work out approximately how many words are in the reading book?



- 2) This table has been completed with some of the answers when a number was rounded.
What is the greatest possible starting number for each row?

Number	Rounded to the nearest 1000	Rounded to the nearest 10 000	Rounded to the nearest 100 000	Rounded to the nearest 1 000 000
	50 000		100 000	
		3 410 000		3 000 000
	8 110 000		8 100 000	

3)

Explain whether you agree with the statements about the numbers on the cards.

1 256 957

1 249 901

1 304 001

1 259 527

All four of these numbers will round to 1 300 000 when rounded to the nearest 100 000.

Only one of these numbers rounds to 1 260 000 when rounded to the nearest 10 000.

When you round two of these numbers to the nearest 1000, you will get a multiple of 10 000 as the answer.

DIVE DEEPER 2



Savanna is rounding numbers.
She says,

I think that two million, one hundred and forty five thousand, nine hundred and eighty two rounded to the nearest hundred thousand is 2,150,000.



Is she correct? Explain your answer.

- 1) $20 \times 40 =$ Approximately 800 words on each page
 $800 \times 500 =$ Approximately 400 000 words in a book

2)

Number	Rounded to the nearest 1000	Rounded to the nearest 10 000	Rounded to the nearest 100 000	Rounded to the nearest 1 000 000
50 499	50 000		100 000	
3 414 999		3 410 000		3 000 000
8 110 499	8 110 000		8 100 000	

3)

This statement is incorrect. 1 249 901 will round down to 1 200 000.

This statement is incorrect. Both 1 256 957 and 1 259 527 round to 1 260 000.

This statement is correct. 1 249 901 rounded to the nearest 1000 is 1 250 000. 1 259 527 rounded to the nearest 1000 is 1 260 000. Both are multiples of 10 000.

CHALLENGE - Savanna is incorrect because she has rounded to the nearest ten thousand. Her answer should be 2,100,000.

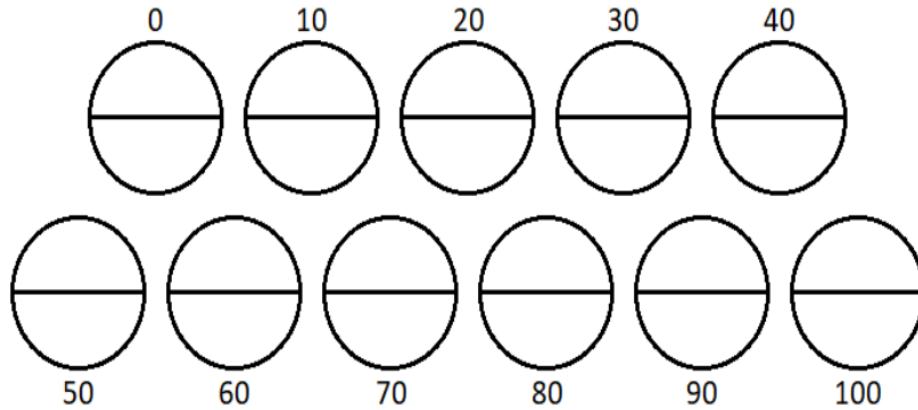




Reasoned Rounding



This is a rounding game for two players.



You will need a recording sheet shared between the two players. One sheet is enough for three games.

The first player rolls a 0-9 dice twice and chooses which two-digit number they would like to make from the numbers rolled.

They then round this number to the nearest 10, find the matching circle on the recording sheet and write their two digit number in one of the spaces in that circle.

The second player rolls the dice twice to take their turn in a similar way.

A circle is complete when it has two numbers in it and this scores a point for the person who wrote the second number in. (Even if the first number was written in by the other player.)

The game is over when all the circles are full and then the points are counted up to find the winner.