

Rounding to 10, 100 and 1,000

Reasoning and Problem Solving

R

My number rounded to the nearest 10 is 1,150
Rounded to the nearest 100 it is 1,200
Rounded to the nearest 1,000 it is 1,000



Jack

1,150
1,151
1,152
1,153
1,154

What could Jack's number be?

Can you find all of the possibilities?

2,567 to the nearest 100 is 2,500

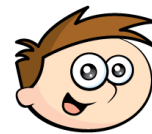


Whitney

Do you agree with Whitney?
Explain why.

I do not agree with Whitney because 2,567 rounded to the nearest 100 is 2,600. I know this because if the tens digit is 5, 6, 7, 8 or 9 we round up to the next hundred.

Teddy



4,725 to the nearest 1,000 is 5,025

Explain the mistake Teddy has made.

Teddy has correctly changed four thousand to five thousand but has added the tens and the ones back on. When rounding to the nearest thousand, the answer is always a multiple of 1,000

Round within Ten Million

Reasoning and Problem Solving

My number is 1,350
when rounded to the
nearest 10



Mo

The greatest
possible difference
is 104 (1,345 and
1,449)



Rosie

My number is 1,400
when rounded to the
nearest 100

Both numbers are whole numbers.

What is the greatest possible difference
between the two numbers?

Whitney rounded 2,215,678 to the
nearest million and wrote 2,215,000

Can you explain to Whitney what mistake
she has made?

There should be
no non-zero digits
in the columns
after the millions
column.

Miss Grogan gives out four number
cards.

15,987

15,813

15,101

16,101

Four children each have a card and give a
clue to what their number is.

Tommy says, “My number rounds to
16,000 to the nearest 1,000”

Alex says, “My number has one hundred.”

Jack says, “My number is 15,990 when
rounded to the nearest 10”

Dora says, “My number is 15,000 when
rounded to the nearest 1,000”

Can you work out which child has which
card?

Tommy: 15,813

Alex: 16,101

Jack: 15,987

Dora: 15,101