

Reasoning and Problem Solving

Step 11: Round to the Nearest 1,000

National Curriculum Objectives:

Mathematics Year 4: (4N4b) [Round any number to the nearest 10, 100 or 1,000](#)

Mathematics Year 4: (4N3a) [Recognise the place value of each digit in a four-digit number \(thousands, hundreds, tens, and ones\)](#)

Mathematics Year 4: (4N6) [Solve number and practical problems that involve 4N1 - 4N5 and with increasingly large positive numbers](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Match the statements and numbers by rounding 4-digit numbers to the nearest thousand. Numbers are represented using numerals or pictorials, and digits or images which determine whether the number is rounded up or down are underlined.

Expected Match the statements and numbers by rounding 4-digit numbers to the nearest thousand. Numbers are represented using numerals, pictorials and words.

Greater Depth Match the statements and numbers by rounding 4-digit numbers to the nearest thousand. Numbers are represented using mixed pictorials and words. Unconventional partitioning is used for some numbers.

Questions 2, 5 and 8 (Reasoning)

Developing Find the odd one out when rounding 4-digit numbers to the nearest thousand. Numbers are represented using numerals and pictorials, and digits or images which determine whether the number is rounded up or down are underlined.

Expected Find the odd one out when rounding 4-digit numbers to the nearest thousand. Numbers are represented using numerals, pictorials and words.

Greater Depth Find the odd one out when rounding 4-digit numbers to the nearest thousand. Numbers are represented using mixed pictorials and words. Unconventional partitioning is used for some numbers.

Questions 3, 6 and 9 (Reasoning)

Developing Explain if a statement rounding a given number to a given thousand is correct. Numbers are represented using numerals, and digits which determine whether the number is rounded up or down are underlined.

Expected Explain if a statement rounding a given number to a given thousand is correct. Numbers are represented using words.

Greater Depth Explain if a statement rounding a given number to a given thousand is correct. Numbers are represented using unconventional partitioning.

More [Year 4 Place Value](#) resources.

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Round to the Nearest 1,000

Round to the Nearest 1,000

1a. Match the descriptions to the numbers.

A. Rounds up to 3,000



B. Rounds up to 2,000

2,714

C. Rounds down to 2,000

1,875



PS

1b. Match the descriptions to the numbers.

A. Rounds up to 3,000

3,608

B. Rounds up to 4,000



C. Rounds down to 3,000

2,961



PS

2a. When rounded to the nearest thousand, which is the odd one out?

A. 5,264



B. 1,000 100 10 10 1



C. 4,985

Explain your reasoning.



R

2b. When rounded to the nearest thousand, which is the odd one out?

A. 4,519



B. 1,000 1,000 10 10 1



C. 4,471

Explain your reasoning.



R

3a. Max is thinking of a number.

He says,



My number is 3,148 and it rounds up to 4,000 to the nearest thousand.

Is he correct?

Explain your reasoning.



R

3b. Saskia is thinking of a number.

She says,



My number is 5,962 and it rounds up to 6,000 to the nearest thousand.

Is she correct?

Explain your reasoning.



R

Round to the Nearest 1,000

Round to the Nearest 1,000

4a. Match the descriptions to the numbers.

A. Rounds up to 7,000



B. Rounds up to 6,000

6,524

C. Rounds down to 6,000

Five thousand, six hundred and one



PS

4b. Match the descriptions to the numbers.

A. Rounds up to 6,000

Five thousand, six hundred and four

B. Rounds down to 6,000



C. Rounds down to 5,000

6,418



PS

5a. When rounded to the nearest thousand, which is the odd one out?

A. 4,620



B. 1,000



C. Five thousand, five hundred and three

5b. When rounded to the nearest thousand, which is the odd one out?

A. 4,209



B. 1,000



C. Three thousand, six hundred and eighty-one

Explain your reasoning.



R

Explain your reasoning.



R

6a. Chuan is thinking of a number.

He says,



My number is eight thousand, five hundred and five and it rounds down to 8,000 to the nearest thousand.

Is he correct?

Explain your reasoning.



R

6b. Isabel is thinking of a number.

She says,



My number is six thousand, seven hundred and eleven and it rounds up to 7,000 to the nearest thousand.

Is she correct?

Explain your reasoning.



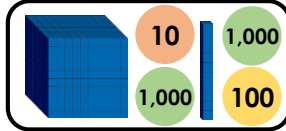
R

Round to the Nearest 1,000

Round to the Nearest 1,000

7a. Match the descriptions to the numbers.

A. Rounds down to 3,000



B. Rounds up to 4,000

Three thousand, six hundred and eighteen

C. Rounds down to 4,000

Three thousands and fourteen hundreds



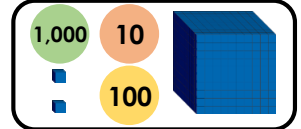
PS

7b. Match the descriptions to the numbers.

A. Rounds up to 3,000

Three thousand, four hundred and ninety-nine

B. Rounds down to 3,000



C. Rounds down to 2,000

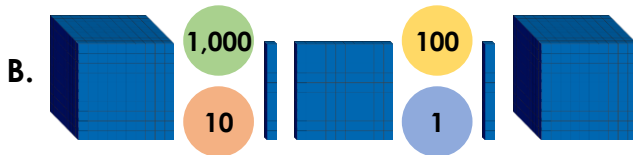
Two thousands and fifty-six tens



PS

8a. When rounded to the nearest thousand, which is the odd one out?

A. Two thousand, nine hundred and seventy-six



C. Thirty-five hundreds and forty ones

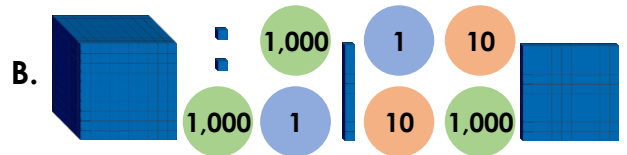
Explain your reasoning.



R

8b. When rounded to the nearest thousand, which is the odd one out?

A. Three thousand, two hundred and seventy-eight



C. Twenty-nine hundreds, six tens and twelve ones

Explain your reasoning.



R

9a. Josh is thinking of a number.

He says,



My number has seven thousands, fifteen hundreds and eleven ones, and it rounds up to eight thousand.

Is he correct?

Explain your reasoning.



R

9b. Sophie is thinking of a number.

She says,



My number has twenty-four hundreds, twelve tens and thirteen ones, and it rounds down to two thousand.

Is she correct?

Explain your reasoning.



R

Reasoning and Problem Solving Round to the Nearest 1,000

Developing

- 1a. A – 2,714, B – 1,875, C – counters (2,231)
2a. B is the odd one out because it rounds to 4,000. A and C round to 5,000.
3a. Max is incorrect because 3,148 rounds down to 3,000 as it has a hundreds value of less than 500.

Expected

- 4a. A – 6,524, B – five thousand, six hundred and one, C – counters (6,101)
5a. C is the odd one out because it rounds to 6,000. A and B round to 5,000.
6a. Chuan is incorrect, because eight thousand, five hundred and five rounds up to 9,000 as it has a hundreds value of 500.

Greater Depth

- 7a. A – base 10 and counters (3,120), B – three thousand, six hundred and eighteen, C – three thousands and fourteen hundreds
8a. C is the odd one out because it rounds to 4,000. A and B round to 3,000.
9a. Josh is incorrect because his number is 8,511 which rounds up to 9,000 as it has a hundreds value of 500.

Reasoning and Problem Solving Round to the Nearest 1,000

Developing

- 1b. A – 2,961, B – 3,608, C – counters (3,221)
2b. C is the odd one out because it rounds to 4,000. A and B round to 5,000.
3b. Saskia is correct because 5,962 rounds up to 6,000 as it has a hundreds value of more than 500.

Expected

- 4b. A – five thousand, six hundred and four, B – 6,418, C – counters (5,111)
5b. B is the odd one out because it rounds to 3,000. A and C round to 4,000.
6b. Isabel is correct, because six thousand, seven hundred and eleven rounds up to 7,000 as it has a hundreds value of more than 500.

Greater Depth

- 7b. A – two thousands and fifty six tens, B – three thousand, four hundred and ninety nine, C – base 10 and counters (2,112)
8b. B is the odd one out because it rounds to 4,000. A and C round to 3,000.
9b. Sophie is incorrect because her number is 2,533 which rounds up to 3,000 as it has a hundreds value of 500.