Homework/Extension
Step 3: Rounding Numbers

National Curriculum Objectives:

Mathematics Year 6: (6N4) Round any whole number to a required degree of accuracy

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Select the correct numbers when rounding a given number to 1,000,000. Numbers represented as numerals with some pictorial representations.
Expected Select the correct numbers when rounding a given number to 10,000 and 100,000. Numbers represented as numerals and words with some pictorial representations.
Greater Depth Select the correct numbers when rounding a given number to 10,000 and 100,000. Numbers represented as numerals, words and Roman numerals. Please note: Roman numerals are used in unconventional ways to add additional challenge.

Questions 2, 5 and 8 (Varied Fluency)
Developing Use the number cards to correctly complete the statements about rounding numbers to the nearest 1,000,000, with five missing digits and numbers represented as numerals.
Expected Use the number cards to correctly complete the statements about rounding numbers to the nearest 10,000 and 100,000, with five missing digits and numbers represented as numerals and words.
Greater Depth Use the number cards to correctly complete the statements about rounding numbers to the nearest 10,000 and 100,000, with five missing digits and numbers represented as numerals, words and Roman numerals. Please note: Roman numerals are used in unconventional ways to add additional challenge.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Use the given clues to explain what a number could be when rounding to the nearest 1,000,000. Numbers represented as numerals.
Expected Use the given clues to explain what a number could be when rounding to the nearest 10,000, 100,000 and 1,000,000. Numbers represented as numerals.
Greater Depth Use the given clues to explain what a number could be when rounding to the nearest 1,000, 10,000, and 100,000. Numbers represented as numerals, words and Roman numerals. Please note: Roman numerals are used in unconventional ways to add additional challenge.

More Year 6 Place Value resources.

Did you like this resource? Don't forget to review it on our website.

Homework/Extension – Rounding Numbers – Teaching Information

Rounding Numbers

1. Tick the option that shows what the number in the place value chart will be when it is rounded to the nearest million.

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

- [ ] 1,000,000
- [ ] 1,000,000   1,000,000
- [ ] 1,000,000   1,000,000   1,000,000

2. Use each digit card once to complete both statements.

7	6	3

4 , ☐ 4 7 , 5 0 8

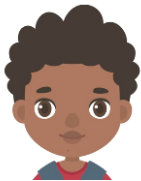**rounded to the nearest million is 5,000,000**

☐ , ☐ 1 3 , 2 1 1

rounded to the nearest million is 6,000,000

3. Jake is thinking of a number. He puts it in this function machine.

All of the digits in my number are even.

? → nearest 1,000,000 → 3,000,000

What could Jake's number be?

Rounding Numbers

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4. Tick the options that show what the number in the place value chart will be when it is rounded to the nearest ten thousand and nearest hundred thousand.

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

2,620,000

Two million, six hundred and ten thousand

Two million, six hundred thousand

2,700,000

⭐ E

VF
HW/Ext

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5. Use each digit card once to complete both statements.

8 7 5 0 4

3 , 0 ☐ 2 , 5 0 8

rounded to the nearest ten thousand is three million

8 , ☐ ☐ 3 , 2 1 1

rounded to the nearest hundred thousand is

☐ , ☐ 0 0 , 0 0 0

⭐ E

VF
HW/Ext

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6. Abigail is thinking of a number. She puts it in these function machines.

"My number has 7 digits, but only one of the digits is even."

What could Abigail's number be?

?

nearest 1,000,000 → 7,000,000

nearest 100,000 → 7,500,000

nearest 10,000 → 7,500,000

⭐ E

RPS
HW/Ext

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Homework/Extension – Rounding Numbers – Year 6 Expected

Rounding Numbers

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7. Tick the options that show what the number in the place value chart will be when it is rounded to the nearest ten thousand and nearest hundred thousand.

Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
VII	IV	• • • •	V	III	• • • •	• •

Seven million

Seven million, five hundred thousand

Seven million four hundred thousand

Seven million, four hundred and seventy thousand

GD

VF
HW/Ext

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8. Use each digit card once to complete both statements.

II   V

III   III

I   VI

4 , 9 ☐ 7 , ☐ 0 8

rounded to the nearest thousand is four million, nine hundred and eighteen thousand

6 , ☐ ☐ 7 , 4 3 8

rounded to the nearest ten thousand is

☐ , ☐ 3 0 , 0 0 0

VF
HW/Ext

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9. Jeffrey is thinking of a number. He puts it in these function machines.

My number has 7 digits and two of the digits are odd.

What could Jeffrey's number be?

?

nearest 100,000 — eight million, three hundred thousand

nearest 10,000 — VIII million, CC and LXX thousand

nearest 1,000 — eight million, CC and LXVI thousand

RPS
HW/Ext

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Homework/Extension – Rounding Numbers – Year 6 Greater Depth

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Developing
1. **3,000,000**
2. **The numbers should be 4,<u>7</u>47,508 in the first statement and <u>6</u>,313,211 in the second statement.**
3. **Various answers, for example: 2,862,884 or 2,644,826.**

Expected
4. **2,620,000; two million, six hundred thousand.**
5. **The numbers should be 3,0<u>0</u>2,508 in the first statement and 8,<u>47</u>3,211 and <u>8</u>,500,000 in the second statement.**
6. **Various answers, for example: 7,499,335 or 7,495,971.**

Greater Depth
7. **seven million, four hundred and seventy thousand; seven million, five hundred thousand**
8. **4,9<u>17</u>,<u>5</u>08; 6,<u>327</u>,438; <u>6</u>,330,000**
9. **Various answers, for example: 8,265,681 or 8,265,827.**

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Homework/Extension – Rounding Numbers ANSWERS