

Homework/Extension

Step 10: Round Within a Million

National Curriculum Objectives:

Mathematics Year 5: (5N2) [Read, write, order and compare numbers to at least 1,000,000](#)
Mathematics Year 5: (5N3a) [Determine the value of each digit in numbers up to 1,000,000](#)
Mathematics Year 5: (5N4) [Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Complete 3 number sequences by rounding up to 999,999 to the nearest 10, 100 or 1,000. Digits that determine whether the number is rounded up or down are underlined.

Expected Complete three number sequences by rounding up to 999,999 to the nearest 10, 100, 1,000, 10,000 or 100,000.

Greater Depth Complete three number sequence by rounding up to 999,999 to the nearest 10, 100, 1,000, 10,000 or 100,000, and identify the pattern each sequence follows.

Questions 2, 5 and 8 (Varied Fluency)

Developing Round the given amounts and match them correctly using rounding up to 999,999 to the nearest 10, 100 or 1,000. Digits that determine whether the number is rounded up or down are underlined.

Expected Round the given amounts and match them correctly using rounding up to 999,999 to the nearest 10, 100, 1,000, 10,000 or 100,000.

Greater Depth Round the given numbers in two different ways and match them correctly using rounding up to 999,999 to the nearest 10, 100, 1,000, 10,000 or 100,000.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain if a given statement is correct by rounding up to 999,999 to the nearest 10, 100 or 1,000. Digits that determine whether the number is rounded up or down are underlined.

Expected Explain if a given statement is correct by rounding up to 999,999 to the nearest 10, 100, 1,000, 10,000 or 100,000.

Greater Depth Explain which statement is correct by rounding up to 999,999 to the nearest 10, 100, 1,000, 10,000 or 100,000.

More [Year 5 Place Value](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Round Within a Million

1. Use the numbers below to complete the sequences if all the numbers are rounded to the nearest 100.

730,583

200,101

500,562

1. 100,101 , , 300,101 , 400,101 , 500,101

2. 300,570 , 400,561 , , 600,553 , 700,640

3. 750,643 , 740,641 , , 720,602 , 710,562



VF
HW/Ext

2. Match the numbers that make a total of 1,000,000 when rounded to the nearest 1,000.

500,155

800,303

600,401

500,212

200,201

400,200



VF
HW/Ext

3. Sara thinks that the numbers below are in ascending order when rounded to the nearest thousand.



391,101

395,511

400,201

Is Sara correct? Explain how you know.

Are there any other ways that Sara could round the numbers so that the order stays the same?



RPS
HW/Ext

Round Within a Million

4. Use the numbers below to complete the sequences if all the numbers are rounded to the nearest 1,000.

750,583

743,711

293,472

801,083

1. 192,301 , , 394,392 , 495,484 , 596,281

2. 500,499 , 622,471 , , 865,581 , 987,884

3. 901,283 , 850,781 , , , 701,462



VF
HW/Ext

5. Match the numbers that make a total of 1,000,000 when rounded to the nearest 100,000.

639,391

449,201

451,028

250,921

650,021

549,001



VF
HW/Ext

6. Ben thinks that the numbers below are in ascending order when rounded to the nearest ten.



290,498

291,501

292,509

293,511

295,001

Is Ben correct? Explain how you know.

Are there any other ways that Ben could round the numbers so that the order stays the same?



RPS
HW/Ext

Round Within a Million

7. Use the numbers below to complete the sequences if all the numbers are rounded to the nearest 10,000. Describe the pattern for each sequence.

890,998

500,497

899,997

500,721

919,006

1. 280,901 , 390,811 , , 610,631 , 720,741

2. 540,899 , 520,698 , , 480,296 , 460,095

3. , 911,002 , , , 880,990



VF
HW/Ext

8. Match the numbers that make a total of 1,000,000 when rounded to the nearest 100,000 and 10,000.

253,431

453,669

549,901

354,921

649,229

748,565



VF
HW/Ext

9. Two children have put the numbers below in ascending order by rounding them.

101,227

199,001

343,010

427,841

495,938

Lola says,



They must have been rounded to the nearest 100,000.

Meera says,



They must have been rounded to the nearest 1,000.

Who is correct? Explain how you know.

Are there any other ways that the children could round the numbers so that the order stays the same?



RPS
HW/Ext

Homework/Extension

Round Within a Million

Developing

1. 200,101; 2. 500,562; 3. 730,583
2. 500,155 and 500,212; 604,001 and 402,000; 200,201 and 800,303
3. Sara is correct. When rounded to the nearest 1,000, the numbers are 391,000, 396,000 and 400,000. Various other ways to round, for example: to the nearest 100 (391,100, 395,500 and 400,200).

Expected

4. 1. 293,472; 2. 743,711; 3. 801,083 and 750,583
5. 639,391 and 449,201; 451,028 and 549,001; 650,021 and 250,921
6. Ben is correct. When rounded to the nearest 10, the numbers are 290,500, 291,500, 292,510, 293,510 and 295,000. Various other ways to round, for example: to the nearest 1,000 (290,000, 292,000, 293,000, 294,000 and 295,000).

Greater Depth

7. 1. 500,721 or 500,497 (the sequence increases by 110,000); 2. 500,721 or 500,497 (the sequence decreases by 20,000); 3. 919,006, 899,997, 890,998 (the sequence decreases by 10,000).
8. 253,431 and 748,565; 549,901 and 453,669; 649,229 and 354,921
9. They are both correct. When rounded to the nearest 100,000, the numbers are 100,000, 200,000, 300,000, 400,000 and 500,000. When rounded to the nearest 1,000, the numbers are 101,000, 199,000, 343,000, 428,000 and 496,000. Various other ways to round, for example: to the nearest 10 (101,230, 199,000, 343,010, 427,840 and 495,940).