

2026 MCAS Sample Student Work and Scoring Guide

Grade 4 Mathematics

Question 12: Constructed-Response

Reporting Category: Number and Operations in Base Ten

Standard: [4.NBT.A.3](#) - Use place value understanding to round multi-digit whole numbers to any place.

Item Description: Determine 4-digit numbers that will round to a given number and what might be the greatest and least numbers that will round to given numbers when rounding to the nearest hundreds and thousands.

Calculator: Not allowed

This item can be found in the released item sets on the [MCAS Resource Center](#).

Scoring Guide

Select a score point in the table below to view the sample student response.

Score*	Description
4A 4B	The student response demonstrates an exemplary understanding of the Number and Operations in Base Ten concepts involved in using place value understanding to round multi-digit whole numbers to any place. The student correctly uses number cards to create 4-digit numbers that round to the hundreds and thousands places, and explains place value reasoning to justify their answers.
3	The student response demonstrates a good understanding of the Number and Operations in Base Ten concepts involved in using place value understanding to round multi-digit whole numbers to any place. Although there is significant evidence that the student was able to recognize and apply the concepts involved, some aspect of the response is flawed. As a result, the response merits 3 points.
2	The student response demonstrates a fair understanding of the Number and Operations in Base Ten concepts involved in using place value understanding to round multi-digit whole numbers to any place. While some aspects of the task are completed correctly, others are not. The mixed evidence provided by the student merits 2 points.
1	The student response demonstrates a minimal understanding of the Number and Operations in Base Ten concepts involved in using place value understanding to round multi-digit whole numbers to any place.
0	The student response contains insufficient evidence of an understanding of the Number and Operations in Base Ten concepts involved in using place value understanding to round multi-digit whole numbers to any place. As a result, the response does not merit any points.

*Letters are used to distinguish between sample student responses that earned the same score (e.g., 4A and 4B).

Score Point 4A

This question has four parts.

Francisco, Larry, and Sophia are using these number cards to play a rounding game.

0	1	2	3	4
5	6	7	8	9

During each turn, a player picks four number cards and uses all four cards to make a four-digit number.

Part A

Francisco picks the number cards 2, 8, 4, and 0.

What four-digit number can Francisco make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

4280

Part B

Larry picks the number cards 9, 3, 8, and 5.

What is the **greatest** four-digit number Larry can make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

3985

Part C

Sophia picks the number cards 5, 9, 3, and 4.

What is the **least** four-digit number Sophia can make that rounds to 3,500 when rounding to the **nearest hundred**?

Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

I think that the lowest 4 digit number that rounds to 3,500 while rounding to the nearest hundred is 3459. I know this is the answer because the only two numbers I could make that would round to 3,500 were 3459 and 3549. But I know that 3459 is a lower number than 3549. With me knowing that I know that the lowest four digit number that rounds to 3,500 when rounding to the nearest hundred is 3459.

Part D

Using any four of the number cards, make a four-digit number that rounds to 9,700 when rounding to the **nearest hundred**. Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

The number that I know will round to 9,700 is 9687. I know that it will round to 9,700 because it is above 9649 and below 9750. That is how I know that the number 9,687 would round to 9,700.

Score Point 4B

This question has four parts.

Francisco, Larry, and Sophia are using these number cards to play a rounding game.

0	1	2	3	4
5	6	7	8	9

During each turn, a player picks four number cards and uses all four cards to make a four-digit number.

Part A

Francisco picks the number cards 2, 8, 4, and 0.

What four-digit number can Francisco make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

4028

Part B

Larry picks the number cards 9, 3, 8, and 5.

What is the **greatest** four-digit number Larry can make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

3985

Part C

Sophia picks the number cards 5, 9, 3, and 4.

What is the **least** four-digit number Sophia can make that rounds to 3,500 when rounding to the **nearest hundred**? Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

3,459 i know my answer is correct because 3,459 rounds up because the second digit is 5 or above.

Part D

Using any four of the number cards, make a four-digit number that rounds to 9,700 when rounding to the **nearest hundred**. Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

9,687 i know my answer is correct because the number in the tens place is greater than 5.

Score Point 3

This question has four parts.

Francisco, Larry, and Sophia are using these number cards to play a rounding game.

0	1	2	3	4
5	6	7	8	9

During each turn, a player picks four number cards and uses all four cards to make a four-digit number.

Part A

Francisco picks the number cards 2, 8, 4, and 0.

What four-digit number can Francisco make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

4,280

Part B

Larry picks the number cards 9, 3, 8, and 5.

What is the **greatest** four-digit number Larry can make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

5,398

Part C

Sophia picks the number cards 5, 9, 3, and 4.

What is the **least** four-digit number Sophia can make that rounds to 3,500 when rounding to the **nearest hundred**? Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

3,459 I know this because this is a number that rounds to 3,500 and was the smallest one I could find.

Part D

Using any four of the number cards, make a four-digit number that rounds to 9,700 when rounding to the **nearest hundred**. Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

9,701, I know this because If I subtract one from this I will get 9,700, my number. But I will have to add a lot to get 9,800.

Score Point 2

This question has four parts.

Francisco, Larry, and Sophia are using these number cards to play a rounding game.

0	1	2	3	4
5	6	7	8	9

During each turn, a player picks four number cards and uses all four cards to make a four-digit number.

Part A

Francisco picks the number cards 2, 8, 4, and 0.

What four-digit number can Francisco make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

4,820

Part B

Larry picks the number cards 9, 3, 8, and 5.

What is the **greatest** four-digit number Larry can make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

3,985

Part C

Sophia picks the number cards 5, 9, 3, and 4.

What is the **least** four-digit number Sophia can make that rounds to 3,500 when rounding to the **nearest hundred**? Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

3,495 because the nine in the tens place is more than five

Part D

Using any four of the number cards, make a four-digit number that rounds to 9,700 when rounding to the **nearest hundred**. Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

9,675 it is correct because the seven in the tens place rounds the six hundred to seven hundred

Score Point 1

This question has four parts.

Francisco, Larry, and Sophia are using these number cards to play a rounding game.

0	1	2	3	4
5	6	7	8	9

During each turn, a player picks four number cards and uses all four cards to make a four-digit number.

Part A

Francisco picks the number cards 2, 8, 4, and 0.

What four-digit number can Francisco make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

4,208

Part B

Larry picks the number cards 9, 3, 8, and 5.

What is the **greatest** four-digit number Larry can make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

5,398

Part C

Sophia picks the number cards 5, 9, 3, and 4.

What is the **least** four-digit number Sophia can make that rounds to 3,500 when rounding to the **nearest hundred**? Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

3,593

Part D

Using any four of the number cards, make a four-digit number that rounds to 9,700 when rounding to the **nearest hundred**. Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

9,573

Score Point 0

This question has four parts.

Francisco, Larry, and Sophia are using these number cards to play a rounding game.

0	1	2	3	4
5	6	7	8	9

During each turn, a player picks four number cards and uses all four cards to make a four-digit number.

Part A

Francisco picks the number cards 2, 8, 4, and 0.

What four-digit number can Francisco make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

4820

Part B

Larry picks the number cards 9, 3, 8, and 5.

What is the **greatest** four-digit number Larry can make that rounds to 4,000 when rounding to the **nearest thousand**?

Enter your number in the space provided.

5983

Part C

Sophia picks the number cards 5, 9, 3, and 4.

What is the **least** four-digit number Sophia can make that rounds to 3,500 when rounding to the **nearest hundred**? Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

3594 beacuse i used ALL the numbers.

Part D

Using any four of the number cards, make a four-digit number that rounds to 9,700 when rounding to the **nearest hundred**. Explain how you know your answer is correct.

Enter your number and your explanation in the space provided.

9405 becuse ithink it is to the neart huddred.