

Answers – Developing Rounding Numbers

Varied Fluency

1a. **A and B**

2a. **3,429,450 and 2,814,304**

3a.

Number	Rounds to 4,000,000	Rounds to 5,000,000
4,144,831	✓	
4,531,258		✓
4,776,012		✓

4a. **8,000,000**

Reasoning and Problem Solving

1a. **2,503,104 as it rounds to 3,000,000 – the other numbers round to 2,000,000.**

2a. **The children can have the following numbers:**

Kevin – 5,515,633.

Michael – 4,672,145 or 5,413,692

Anna – 4,672,145 or 5,413,692

A solution where each child has a different number is acceptable.

3a. **Alfie is incorrect because he has rounded to the nearest 100,000. His answer should be 5,000,000.**

Answers – Developing Rounding Numbers

Varied Fluency

1b. **A and B**

2b. **3,501,715; 4,098,275; and 3,799,140**

3b.

Number	Rounds to 8,000,000	Rounds to 9,000,000
8,652,683		✓
8,348,135	✓	
8,514,763		✓

4b. **4,000,000**

Reasoning and Problem Solving

1b. **4,152,260 (represented pictorially) as it rounds to 4,000,000 – the other numbers round to 5,000,000.**

2b. **The children can have the following numbers:**

Stephen – 8,414,793 or 7,641,383

Paul – 8,414,793 or 7,641,383

Sophie – 7,321,562

A solution where each child has a different number is acceptable.

3b. **Susan is incorrect because there are 5 hundred thousands which means the number rounds up. Her answer should be 8,000,000.**

Answers – Expected Rounding Numbers

Varied Fluency

1a. **A and C**

2a. **1,625,900 and two million, three hundred and fifty-five thousand, eight hundred and five**

3a.

Number	Rounds to 2,900,000	Rounds to 3,000,000
2,858,790	✓	
3,015,830		✓
2,945,745	✓	

4a. **2,710,000; 2,700,000; 3,000,000**

Reasoning and Problem Solving

1a. **To the nearest million, the odd one out is 4,514,212 (represented pictorially).**

To the nearest hundred thousand, the odd one out is 3,894,170 (written in words).

2a. **The children can have the following numbers:**

Jade – 3,502,005 or 3,495,811

Maxine – 3,415,667 or 3,495,811

Justin – 3,502,005 or 3,495,811

A solution where each child has a different number is acceptable.

3a. **Savanna is incorrect because she has rounded to the nearest ten thousand. Her answer should be 2,100,000.**

Answers – Expected Rounding Numbers

Varied Fluency

1b. **B and C**

2b. **4,465,715 and four million, five hundred and two thousand, five hundred and thirty**

3b.

Number	Rounds to 4,900,000	Rounds to 5,000,000
4,896,344	✓	
4,995,051		✓
5,003,688		✓

4b. **5,260,000; 5,300,000; 5,000,000**

Reasoning and Problem Solving

1b. **To the nearest hundred thousand, the odd one out is 947,301.**

To the nearest ten thousand, the odd one out is 1,042,240 (represented pictorially).

2b. **The children can have the following numbers:**

Ellis – 4,509,012 or 4,513,433 or 4,499,785

Toni – 4,509,012 or 4,513,433 or 4,499,785

Saanvi – 4,509,012 or 4,513,433

A solution where each child has a different number is acceptable.

3b. **Trevan is incorrect because there are 5 thousands which means the number rounds up. His answer should be 5,500,000.**

Answers – Greater Depth Rounding Numbers

Varied Fluency

1a. **B and C**

2a. **6,962,DCC (6,962,700) and 7,039,815**

3a.

Number	Rounds to 7,700,000	Rounds to 7,800,000
7,795,DXXV(525)		✓
7,704,DCCCXCI(891)	✓	
7,804,000		✓

4a. **(9,003,679) 9,004,000; 9,000,000; 9,000,000; 9,000,000**

Reasoning and Problem Solving

1a. **To the nearest million, the odd one out is 2,513,674 (numbers and Roman numerals). When rounded to the nearest hundred thousand, the odd one out is 2,364,133.**

2a. **The children can have the following numbers:**

Andrew – 4,453,255 or 4,506,244 or 4,510,361

Pippa – 4,453,255

Rose – 4,506,244 or 4,510,361

A solution where each child has a different number is acceptable.

3a. **Harrison is incorrect because 4,505,CMXCII (4,505,992) rounded to the nearest hundred thousand is 4,500,000, but rounded to the nearest ten thousand it is 4,510,000.**

Answers – Greater Depth Rounding Numbers

Varied Fluency

1b. **A and C**

2b. **3,899,516 and three million, nine hundred and one thousand and six**

3b.

Number	Rounds to 3,900,000	Rounds to 4,000,000
3,906,DXII(512)	✓	
3,960,215		✓
3,851,CI(101)	✓	

4b. **(6,412,999) 6,413,000; 6,410,000; 6,400,000; 6,000,000**

Reasoning and Problem Solving

1b. **To the nearest hundred thousand, the odd one out is 6,551,222. When rounded to the nearest ten thousand, the odd one out is 6,491,506 (words and Roman numerals).**

2b. **The children can have the following numbers:**

Jack – 2,004,999

Madeline – 2,504,584 or 2,504,499

Kieran – 2,504,584 or 2,504,499

A solution where each child has a different number is acceptable.

3b. **Abigail is incorrect because 6,030,DCCXLII (6,030,742) rounded to the nearest ten thousand is 6,030,000, but rounded to the nearest thousand is 6,031,000.**