

Varied Fluency

Step 3: Rounding Numbers

National Curriculum Objectives:

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

Differentiation:

Developing Questions to support rounding numbers up to and within 10,000,000 to the nearest 1,000,000. Numerals only with some pictorial representations.

Expected Questions to support rounding numbers up to and within 10,000,000 to the nearest 10,000, 100,000 and 1,000,000. Numbers represented as numerals and words with some pictorial representations.

Greater Depth Questions to support rounding numbers up to and within 10,000,000 to the nearest 1,000, 10,000, 100,000 and 1,000,000. Numbers represented as numerals, words and some use of Roman Numerals.

More [Year 6 Place Value](#) resources.

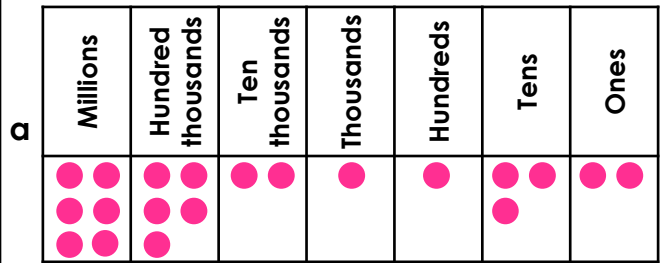
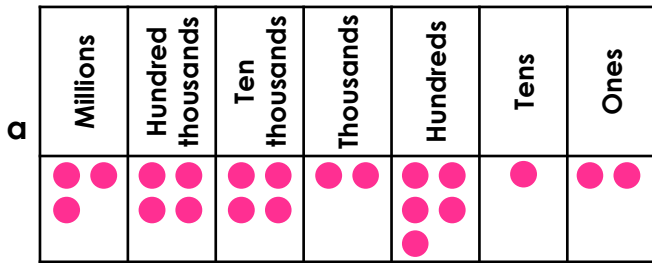
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Rounding Numbers

Rounding Numbers

1a. Which two numbers will round to the same value when rounded to the nearest 1,000,000?

1b. Which two numbers will round to the same value when rounded to the nearest 1,000,000?



b 3,157,995 c 3,713,482

b 7,366,831 c 6,455,322



VF



VF

2a. Which numbers round to 3,000,000 when rounding to the nearest 1,000,000?

2b. Which numbers round to 4,000,000 when rounding to the nearest 1,000,000?

3,571,602

3,429,450

3,501,715

4,098,275

2,814,304

2,416,530

3,799,140

4,510,340



VF



VF

3a. Tick to show whether the number rounds to 4,000,000 or 5,000,000 to the nearest 1,000,000.

3b. Tick to show whether the number rounds to 8,000,000 or 9,000,000 to the nearest 1,000,000.

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

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



VF

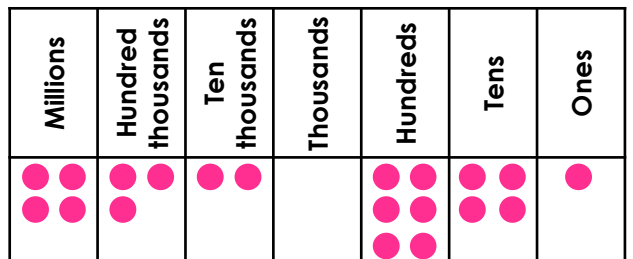


VF

4a. Round the number below to the nearest 1,000,000.

4b. Round the number below to the nearest 1,000,000.

7,503,142



VF



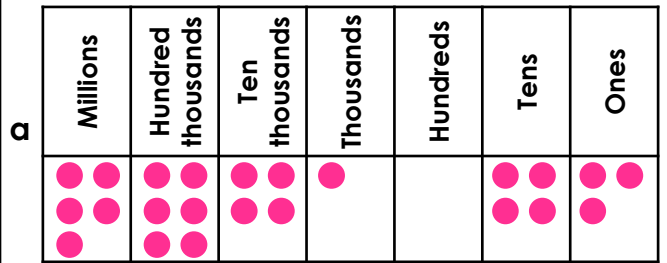
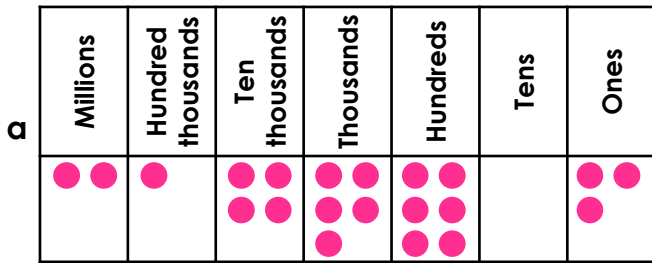
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Rounding Numbers

Rounding Numbers

5a. Which two numbers will round to the same value when rounded to the nearest 10,000?

5b. Which two numbers will round to the same value when rounded to the nearest 100,000?



b **2,158,011** c **Two million, one hundred and fifty-one thousand, nine hundred**

b **5,663,120** c **Five million, seven hundred and nineteen thousand, six hundred**



VF



VF

6a. Which numbers round to 2,000,000 when rounding to the nearest 1,000,000?

6b. Which numbers round to 4,500,000 when rounding to the nearest 100,000?

2,565,705

1,625,900

4,712,805

4,465,715

Two million, three hundred and fifty-five thousand, eight hundred and five

Four million, five hundred and two thousand, five hundred and thirty



VF



VF

7a. Tick to show whether the number rounds to 2,900,000 or 3,000,000 to the nearest 100,000.

7b. Tick to show whether the number rounds to 4,900,000 or 5,000,000 to the nearest 10,000.

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

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



VF

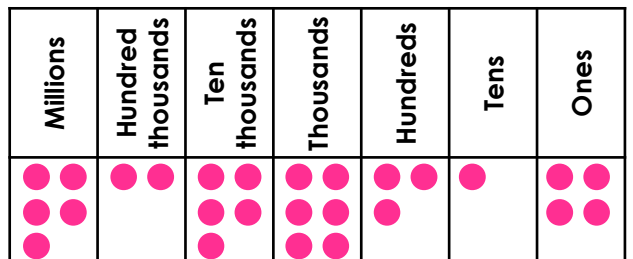


VF

8a. Round the number below to the nearest 10,000, 100,000 and 1,000,000.

8b. Round the number below to the nearest 10,000, 100,000 and 1,000,000.

Two million, seven hundred and five thousand, six hundred and fifty-four.



VF



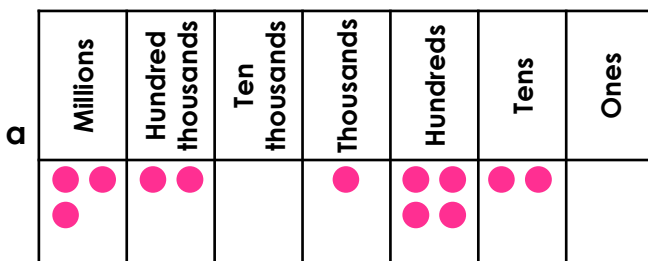
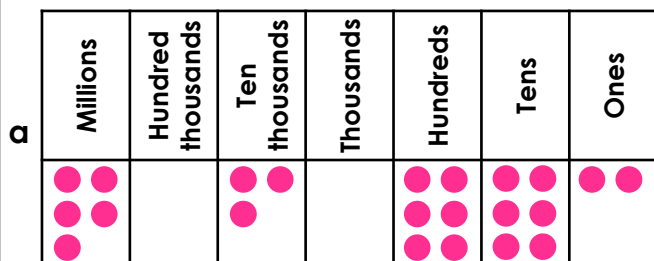
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Rounding Numbers

Rounding Numbers

9a. Which two numbers will round to the same value when rounded to the nearest 1,000?

9b. Which two numbers will round to the same value when rounded to the nearest 100,000?



b 5 million, forty-one thousand, DCII

c Five million, forty-two thousand, CXIV

b 3,278,568

c Three million, one hundred and fifty thousand and seven



VF



VF

10a. Which numbers round to 7,000,000 when rounding to the nearest 100,000?

6,962,DCC

7,039,815

Six million, nine hundred and forty-three thousand, DCCLII

10b. Which numbers round to 3,900,000 when rounding to the nearest 10,000?

3,909,CDLIV

3,899,516

Three million, nine hundred and one thousand and six



VF



VF

11a. to show whether the number rounds to 7,700,000 or 7,800,000 to the nearest 10,000.

11b. Tick to show whether the number rounds to 3,900,000 or 4,000,000 to the nearest 100,000.

Number	Rounds to 7,700,000	Rounds to 7,800,000
7,795,DXV		
7,704,DCCCXCI		
7,804,000		

Number	Rounds to 3,900,000	Rounds to 4,000,000
3,906,DXII		
3,960,215		
3,851,CI		



VF



VF

12a. Round the number below to the nearest 1,000, 10,000, 100,000 and 1,000,000.

12b. Round the number below to the nearest 1,000, 10,000, 100,000 and 1,000,000.

Nine million, MMMDCLXXIX

Six million, four hundred and twelve thousand, CMXCIX



VF



VF

Varied Fluency Rounding Numbers

Developing

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**

Expected

5a. **A and C**

6a. **1,625,900 and two million, three hundred and fifty-five thousand, eight hundred and five**

7a.

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

8a. **2,710,000; 2,700,000; 3,000,000**

Greater Depth

9a. **B and C**

10a. **6,962,DCC (6,962,700) and 7,039,815**

11a.

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

12a. **(9,003,679) 9,004,000; 9,000,000; 9,000,000; 9,000,000**

Varied Fluency Rounding Numbers

Developing

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**

Expected

5b. **B and C**

6b. **4,465,715 and four million, five hundred and two thousand, five hundred and thirty**

7b.

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

8b. **5,260,000; 5,300,000; 5,000,000**

Greater Depth

9b. **A and C**

10b. **3,899,516 and three million, nine hundred and one thousand and six**

11b.

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

12b. **(6,412,999) 6,413,000; 6,410,000; 6,400,000; 6,000,000**