

4.NBT.B.4 Estimate Sums and Differences (Apply Rounding Abilities)

4.NBT.B.4: Fluently add and subtract multi-digit whole numbers using the standard algorithm.

1. Round to the nearest hundred and then estimate.

a.
$$\begin{array}{r} 2,394 \\ + 1,490 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 8,450 \\ - 4,001 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 6,948 \\ + 3,054 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 5,301 \\ - 1,906 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 7,633 \\ + 2,200 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 8,452 \\ + 3,957 \\ \hline \end{array}$$

Solution:

- a.
- b.
- c.
- d.
- e.
- f.

2. Round to the nearest thousand and estimate.

a.
$$\begin{array}{r} 22,340 \\ + 11,580 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 12,473 \\ + 10,256 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 82,621 \\ + 17,098 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 62,936 \\ - 41,001 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 58,409 \\ - 11,936 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 75,004 \\ - 43,902 \\ \hline \end{array}$$

Solution:

- a.
- b.
- c.
- d.
- e.
- f.

3. Use the table on your right to answer the following questions:

a. Round to the nearest hundred thousand and find the total number of visitors in Grand Canyon National Park.

b. How many more visitors visited in the month of May than in March if rounded to the nearest million?

c. How many visitors visited in April and March if rounded to the nearest million?

Grand Canyon National Park	
Month	Numbers of Visitors
March	2,907,512
April	5,723,591
May	7,812,013

Solution:

- a.
- b.
- c.

4. Which of these is the number that can be estimated to three million. If rounded to the nearest hundred thousand?

a. 3,048,984

c. 2,239,956

b. 3,974,235

d. 3,674,123

Solution:

5. Explain if the sum of two numbers be estimated to two different numbers?

Solution:

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Answer Key

1. Round to the nearest hundred and then estimate.

$$\begin{array}{r} \text{a. } 2,394 \\ + 1,490 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c. } 8,450 \\ - 4,001 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e. } 6,948 \\ + 3,054 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b. } 5,301 \\ - 1,906 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d. } 7,633 \\ + 2,200 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f. } 8,452 \\ + 3,957 \\ \hline \end{array}$$

Solution:

- a. 3,900
- b. 3,400
- c. 4,500
- d. 9,800
- e. 10,000
- f. 12,500

2. Round to the nearest thousand and estimate.

$$\begin{array}{r} \text{a. } 22,340 \\ + 11,580 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c. } 12,473 \\ + 10,256 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e. } 82,621 \\ + 17,098 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b. } 62,936 \\ - 41,001 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d. } 58,409 \\ - 11,936 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f. } 75,004 \\ - 43,902 \\ \hline \end{array}$$

Solution:

- a. 34,000
- b. 22,000
- c. 22,000
- d. 46,000
- e. 100,000
- f. 31,000

3. Use the table on your right to answer the following questions:

- a. Round to the nearest hundred thousand and find the total number of visitors in Grand Canyon National Park.
- b. How many more visitors visited in the month of May than in March if rounded to the nearest million?
- c. How many visitors visited in April and March if rounded to the nearest million?

Grand Canyon National Park	
Month	Numbers of Visitors
March	2,907,512
April	5,723,591
May	7,812,013

Solution:

a. 16,400,000

b. 5,000,000

c. 9,000,000

4. Which of these is the number that can be estimated to three million. If rounded to the nearest hundred thousand?

- A. 3,048,984
- B. 3,974,235

- C. 2,239,956
- D. 3,674,123

Solution:

A

5. Explain if the sum of two numbers be estimated to two different numbers?

Solution:

It depends on the place value that we are estimating. We will get different results based on the place value of rounding.