

Student Activity Book

**Setting Goals (SAB pp. 719–720)
Questions 1–2**

1.* Possible response: We found friendly numbers by finding the closest hundred for each number: 331 is close to 300, 408 is close to 400, and 398 is close to 400. We added $300 + 400 + 400$ on the number line and we got 1100 laps, so they reached their goal.

2.* If the number of laps for 2 days are doubled and totaled, the third graders are not on pace to reach a goal of 1200 laps in 4 days. Using friendly numbers and adding hundreds and tens:

$$\begin{aligned}
 &160 + 160 + 120 + 120 + 200 + 200 \\
 &= 100 + 100 + 100 + 100 + 200 + 200 + 60 \\
 &\quad + 60 + 20 + 20 \\
 &= 800 + 160 \\
 &= 960 \text{ laps}
 \end{aligned}$$

Name _____ Date _____

Setting Goals

1. The second grade classes at Bessie Coleman School decided to have a walkathon to raise money for the computer lab. They set a goal of walking 1000 laps by the end of a week.

On Friday they collected the following results from the three classes:

Walkathon Laps

Classroom	Number of Laps in One Week
Room 101	331
Room 102	408
Room 103	398

About how many laps did they walk altogether? Do you think they were close to their goal of 1000 laps?

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2. The third graders wanted to have a walkathon, too. They set a goal of walking 1200 laps in four days. After two days of walking, the students recorded the total number of laps for each third grade class:

Walkathon Laps

Classroom	Number of Laps in Two Days
Room 201	158
Room 202	123
Room 203	201

If they walk about the same amount for the next 2 days, do you think they will reach their goal of 1200 laps in 4 days? Why or why not?

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*Answers and/or discussion are included in the lesson.

Find the Best Answer (SAB pp. 721–723)

Questions 1–6

Responses will vary.

1. Mark’s. Possible response: The friendly number for 528 is 530 and the friendly number for 49 is 50. $530 + 50 = 580$. Mark’s answer of 577 is closer to 580.
2. Peter’s. Possible response: I added hundreds: $600 + 400 = 1000$. Frank couldn’t be right because he said 10,610 and 10,000 is a lot bigger than 1000.

3. Rosa’s. Possible response: I found the closest hundred to 279 is 300 and the closest hundred to 132 is 100. I added $300 + 100 = 400$. Rosa is closer.
4. Under 500. Possible response: The friendly number for 194 is 200 and the friendly number for 56 is 60. $200 + 60 = 260$, so under 500 is more reasonable.

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Name _____ Date _____

Find the Best Answer

For each problem, show or tell how you estimated the sum. Then decide which answer is more reasonable.

1. After two weeks, Room 101 had a total of 528 laps. Room 102 had 49 more laps than Room 101. Carla said that Room 102 had 918 laps. Mark said they had 577 laps.

Which answer is more reasonable? _____

How do you know?

2. Mr. Smith’s class walked 619 laps around the school. Mrs. Dewey’s class walked 451 laps. Peter said the two classes walked about 1000 laps altogether. Frank said they walked about 10,610 laps.

Which answer is more reasonable? _____

How do you know?

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3. On Tuesday, Mr. Moreno’s class walked 279 laps around the school. On Wednesday, they walked 132 laps. Emily said that they had walked about 500 laps by the end of Wednesday but Rosa thought they had walked about 400 laps.

Which answer is more reasonable? _____

How do you know?

4. Mrs. Cook’s class recorded 194 laps. On Wednesday, they had 56 more laps. Do you think the new total will be under 500 or over 500?

Circle the answer that you think is more reasonable.

under 500 over 500

Show or tell how you estimated the sum.

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Answer Key • Lesson 2: Estimating Sums

Name _____ Date _____

5. Mrs. Dewey's class walked 451 laps in one week. If they walked about the same number of laps the second week, estimate how many laps they would walk in 2 weeks.

Circle the answer that you think is more reasonable.

under 1000 over 1000

Show or tell how you estimated the sum.

6. There are 500 students in the walkathon. They set a goal of 1000 laps. If each student walks 3 laps, will they reach their goal?

Circle the answer that you think is more reasonable:

No, they will have less than 1000 laps.

Yes, they will have more than 1000 laps.

Show or tell how you estimated the sum.

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Estimating Sums

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5. Under 1000. Possible response: I found the friendly number for 451 is 450. I added $450 + 450 = 900$. I used a number line and started at 400 and made 4 jumps of 100 and 2 jumps of 50 and I landed on 900, so the answer is under 1000.
6. Yes, they would have over 1000 laps. Possible response: I added $500 + 500 + 500 = 1500$. I used base-ten pieces.

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Is it Reasonable (SAB pp. 725–727)
Questions 1–3

Responses will vary.

1. **A.** No. Possible response: I added the hundreds: $400 + 300 = 700$. Levi’s answer is too far away from 700.
B. Yes. Possible response: The friendly number for 399 is 400 and the friendly number for 219 is 200. I added $400 + 200 = 600$. Luis’ answer is close to 600.
2. under 1000. Possible response: My estimate is 700. The friendly number for 416 is 400 and the friendly number for 289 is 300. I added $400 + 300 = 700$. That’s under 1000.
3. **A.** Adding the hundreds does not give you a reasonable estimate. 600 sandwiches is not enough.
B. A better estimate is 800. I used friendly numbers. I added $200 + 200 + 300 + 100 = 800$.
C. about \$1600. I used friendly numbers. The total number of sandwiches is about 800 and they cost about \$2 each. I added $800 + 800 = \$1600$.

Name _____ Date _____

Is it Reasonable

1. Pretend you are the teacher. Show or tell how to estimate the answer to each student’s problem. Use your estimates to see if the students’ answers are reasonable.

A. Levi’s Solution:
$$\begin{array}{r} 475 \\ + 338 \\ \hline 713 \end{array}$$

Show or tell how you estimated the sum.

Is Levi’s solution reasonable? _____

B. Luis’s Solution:
$$\begin{array}{r} 399 \\ + 219 \\ \hline 618 \end{array}$$

Show or tell how you estimated the sum.

Is Luis’s answer reasonable? _____

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Name _____ Date _____

2. There were 416 people watching the walkathon and 289 people participating in the walkathon. About how many people were at the walkathon?
 Circle the answer that you think is more reasonable:

under 1000 over 1000

Show or tell how you estimated the sum.

3. Last year, these sandwiches were served at a luncheon after the walkathon:

Number of Sandwiches	
Kind of Sandwich	Number of Sandwiches
cheese	215
ham	187
tuna	295
peanut butter & jelly	105

The teachers are thinking about how many sandwiches they will need to order if about the same number of people will be eating this year.

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Name _____ Date _____

A. Mara adds the hundreds and thinks they should order 600 sandwiches for this year’s luncheon. Is this a reasonable estimate? Why or why not?

B. Show or tell how you would estimate the total number of sandwiches needed.

C. Each sandwich costs \$2.15. About how much should the teachers expect to spend on all the sandwiches? Show or tell how you know.

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