Section C: Practice Problems

1. Jada writes the same digit in the two blanks to make the statement true. Which digits could she write?

$$6\square,432 < 65,\square98$$

(From Unit 4, Lesson 12.)

2. a. Order these numbers from least to greatest:

98,107 102,356 752,031 88,207 99,653

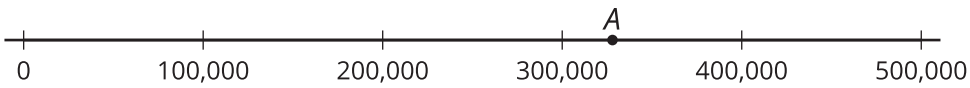
b. How did you pick the smallest number? Explain your reasoning.

(From Unit 4, Lesson 13.)

3. a. Which multiple of 10,000 is closest to 132,256?

b. Which multiple of 100,000 is closest to 132,256?

c. Which multiple of 100,000 is closest to the number labeled A?



(From Unit 4, Lesson 14.)

4. For the number 583,642:

   a. What is the nearest multiple of 100,000?

   b. What is the nearest multiple of 10,000?

   c. What is the nearest multiple of 1,000?

   d. What is the nearest multiple of 100?

   e. What is the nearest multiple of 10?

(From Unit 4, Lesson 15.)

5. a. Describe the numbers that are 460,000 when rounded to the nearest 10,000.

   b. Where are these numbers located on the number line?

(From Unit 4, Lesson 16.)

6. When rounded to the nearest 1,000, Airplane X is flying at 30,000 feet, Airplane Y at 31,000 feet, and Airplane Z at 32,000 feet.

   a. Could Airplanes X and Y be within 1,000 feet of each other? If you think so, give some examples. If you don't think so, explain why not.

   b. Explain why Airplanes X and Z could not be within 1,000 feet of each other. Use a number line if you find it helpful.

(From Unit 4, Lesson 17.)

7. **Exploration**

   Rounded to the nearest 10 pounds, one bag of sand weighs 50 pounds.

   Jada wants at least 1,000 pounds of sand for a sandbox. How many bags of sand does Jada need to buy to be sure that she has enough sand?

8. **Exploration**

You will need a set of digit cards 0–9 for this exploration.

Shuffle your cards and stack them face down. Turn over 6 digit cards.

Can you put the 6 digits in the blanks so that all three statements are true?

a. $\square\square\square, 23 > \square, 978$

b. $\square 2, 403 > 42, \square 01$

c. $43\square, 257 > 4\square 5, 937$

9. **Exploration**

To answer these riddles, think about rounding to the nearest 10, 100, 1,000, or 10,000. Use a number line if it is helpful.

a. I can be rounded to 100 or to 140. What number could I be?

b. I can be rounded to 7,500 or to 8,000. What number could I be?

c. I can be rounded to 60,000 or to 57,000. What number could I be?