Unit 8 Assessment

(1) Estimate and then solve.

Sara wants to buy a new tablet computer and has found one for $402.
So far she has saved $87. Her goal is to buy the tablet in the next
7 months. If she plans to save the same amount of money for each
of the first 5 months and $40 each of the last two months, how much
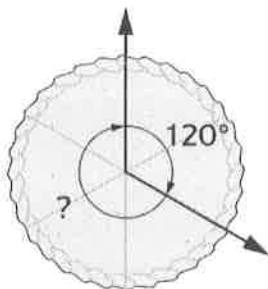money will she need to save each of those 5 months?

Estimate: _____

Number model with unknown: _____

Answer: _____ each month

Is your answer reasonable? Explain. _____

_____

_____

_____
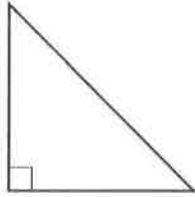
(2) Find the missing angle measure.

Equation with unknown: _____   Answer: _____ °
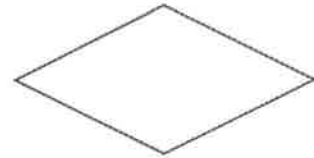
Unit 8 Assessment (continued)

③ How many lines of symmetry does each shape have? Draw the lines of symmetry.

a.

b.

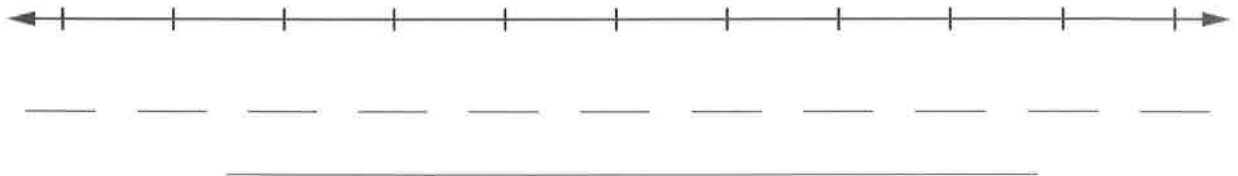_____ line(s) of symmetry   _____ line(s) of symmetry

④ For a school health project, Kate's family kept track of how many teaspoons of salt each of them added to their food each day for 3 days.

This is the data they collected (in teaspoons):

$$1\frac{5}{8}, \ 1\frac{5}{8}, \ 1\frac{3}{8}, \ 1\frac{1}{8}, \ \frac{5}{8}, \ \frac{3}{8}, \ \frac{7}{8}, \ \frac{6}{8}, \ \frac{4}{8}, \ \frac{4}{8}, \ \frac{5}{8}, \ \frac{4}{8}$$

a. Plot the data on the line plot below. Remember to give the line plot a title and to label the horizontal axis, including units.

Title: _____

b. What is the difference between the greatest amount of salt someone in Kate's family added in 1 day and the least? _____ tsp

c. How many times did someone in Kate's family add more than 1 teaspoon of salt to their food? _____ time(s)

What is the total when you add all of the amounts greater than 1 teaspoon?

_____ tsp

Unit 8 Assessment (continued)

⑤ A fourth-grade class has jump ropes that measure 1.8 meters, 2.13 meters, and 2.43 meters. Find the combined length of the 3 different-size ropes. Show your work.

_____ m

⑥ If I ride my bike for $\frac{1}{2}$ hour every day for a week, how many hours will I ride in all?

_____ hr

Explain how you found your answer.

_____

_____

⑦ Use the information below to solve the problem.

Recipe for Soap Bubbles

$5\frac{3}{4}$ cups water

16 fluid ounces dishwashing liquid

$\frac{3}{4}$ cup corn syrup

Combine the water and corn syrup, and then slowly add the dishwashing liquid.

a. How many cups do the water and corn syrup equal when combined? _____ c

b. Will a 2-quart container be big enough to hold all of the ingredients? Explain your answer.

_____

_____

Unit 8 Additional Items

8. Place these numbers on the number line: 88, 104, 131.

$$\leftarrow\!\!+\!\!-\!\!+\!\!-\!\!+\!\!-\!\!+\!\!-\!\!+\!\!-\!\!+\!\!-\!\!+\!\!-\!\!+\!\!-\!\!+\!\!-\!\!+\!\!-\!\!+\!\!\rightarrow$$

85   90   95   100   105   110   115   120   125   130   135

9. Round each number to the nearest hundred-thousand.

   a. 284,776 _____

   b. 425,701 _____

   c. 980,648 _____

10. Use the U.S. standard algorithm to solve.

    $$\begin{array}{r} 167 \\ +\,336 \\ \hline \end{array} \qquad\qquad \begin{array}{r} 973 \\ -\,138 \\ \hline \end{array}$$

Unit 8 Challenge

(1) Solve.

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⬜⬜⬜⬜

(2) Sophia was playing *Name That Number* and had these cards: 3, 15, 7, 4, 1. The target number was 17.

Her teacher, Ms. Jackson, asked everyone to record his or her thinking. Here is what Sophia wrote.

1. ((15 * 3) − 7) * 4 = 17

2. ((15 / 3) + 7) + (4 + 1) = 17

3. 15 − 1 + (4 + 7) = 17

Ms. Jackson saw that Sophia had made mistakes in writing two of her number sentences. Circle the two number sentences that are incorrect.

Explain in words how Sophia could correct each number sentence.

_____

_____

_____

_____