Name _____ Date _____

Unit 5 Study Guide: Fractions and Mixed Numbers

(1) **a.** Write an equation to show $\frac{3}{8}$ as the sum of unit fractions.

_____

b. Decompose each fraction in two different ways. Write equations to show each fraction as a sum of fractions with the same denominator.

$\frac{5}{6}$ _____ _____

$1\frac{3}{4}$ _____ _____

(2) Use your Geometry Template to draw the solution.
Then write an equation for your answer.

If is $\frac{1}{2}$, what is the whole?

Equation: _____

Use manipulatives or drawings to help you solve Problems 3 – 5.

(3) Elly, Francisco, and Ginger shared a quart of ice cream. Elly ate $\frac{3}{8}$, Francisco ate $\frac{1}{8}$, and Ginger ate $\frac{4}{8}$. How much ice cream did they eat?

Number model with unknown: _____

Answer: _____ quart

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④ Mr. Baker uses $1\frac{2}{6}$ cups of walnuts to make homemade granola. Mrs. Cook uses $2\frac{3}{6}$ cups of walnuts to make homemade granola. How many walnuts do they use altogether.

Number model with unknown: _____

Answer: _____ cups

Use manipulatives or drawings to help you solve the following problems.

⑤ ★ Be careful !

a. $\frac{2}{5}+\frac{1}{5}=$ _____ **b.** $\frac{6}{8}+\frac{3}{8}=$ _____

c. $3\frac{1}{3}+1\frac{1}{3}=$ _____ ★ **d.** $2\frac{2}{5}+1\frac{4}{5}=$ _____

⑥ Solve.

$\frac{4}{10}+\frac{30}{100}=$ _____

Use manipulatives or drawings to help you solve Problems 7 – 9.

⑦ At lunch, Arnell drank $\frac{3}{9}$ of a pint of milk. Stacy drank $\frac{7}{9}$ of a pint of milk. How much more milk did Stacy drink than Arnell?

Number Model with unknown: _____

Answer: _____ pint

⑧ Nola lives $3\frac{2}{5}$ blocks from her new school. She lived $2\frac{4}{5}$ blocks from her old school. How much farther from home is her new school than her old school?

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(8)

Number model with unknown: _____

Answer: _____ blocks

Subtract. ★ Be careful!

(9) **a.** $\frac{3}{4} - \frac{1}{4} =$ _____ **b.** _____ $= \frac{7}{10} - \frac{3}{10}$

c. $4\frac{3}{6} - 2\frac{2}{6} =$ _____ ★**d.** _____ $= 6\frac{2}{5} - 2\frac{4}{5}$

(10) Use the data to create a line plot and answer questions about it. Mr. Blaire's class measured their pencil lengths to the nearest $\frac{1}{2}$ centimeter. The measurements they gathered were:

$7\frac{1}{2}$, 7, 7, $6\frac{1}{2}$, $7\frac{1}{2}$, $7\frac{1}{2}$, $6\frac{1}{2}$, $8\frac{1}{2}$, 8,

a. Make a line plot displaying the data. Be sure to include the title and the label.

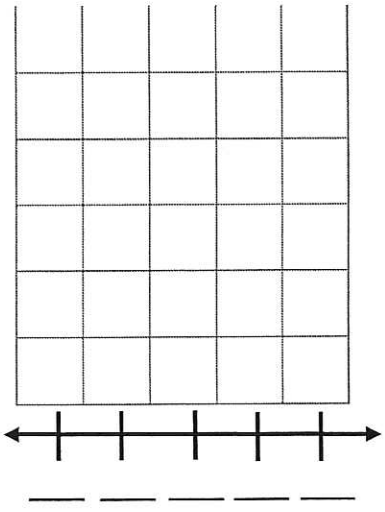
b. What is the length of the longest pencil? _____cm

c. What it the length of the shortest pencil? _____ cm

d. What is the difference in length between the longest and shortest pencils? Write a number model to show your solution:

d. _____

title: _____



label: _____

(11) Draw pictures of these turns, using an arc to show the direction of each one.

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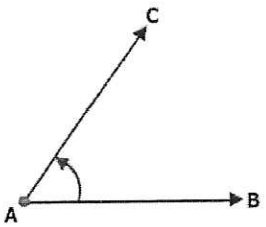
(11) The vertex of the angle and one side have already been drawn for you.

a. $\frac{1}{4}$ turn clockwise

b. $\frac{1}{2}$ turn counterclockwise

(12) a. Estimate the size of the angle to the right.
Circle the best answer.



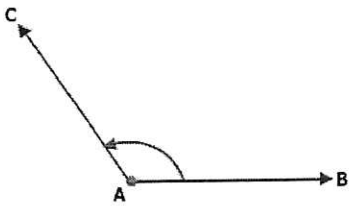
0 – 90 degrees

90 degrees

91 – 180 degrees

Angle CAB is a(n) _____ (*acute, obtuse, right*) angle.

b. Estimate the size of the angle to the right.
Circle the best answer.



0 – 90 degrees

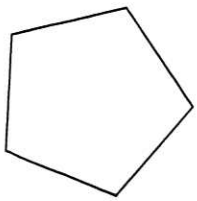
90 degrees

91 – 180 degrees

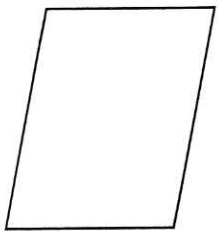
Angle CAB is a(n) _____ (*acute, obtuse, right*) angle.

(13) Draw all the lines of symmetry for the shapes that are symmetrical.

a.



b.



c.

(14) Finish the drawing so that it is symmetric.

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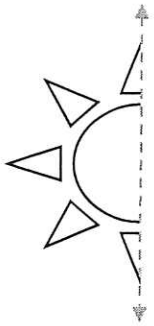
14.



15. Three girls want to start a dog walking business. They each need a leash and a bag of dog treats. Together, they have $60. If each leash is $15 and each bag of dog treats costs $4, how much money will the girls have left over after they purchase all of the items?

Number model with unknown: _____

Answer with unit: _____