Name: _____ Date: _____

EVERYDAY MATHEMATICS—4th Grade
Unit 5 Review: Fractions and Mixed Number Computation; Measurement

1) a. Write an equation to show $\frac{3}{6}$ as the sum of unit fractions.

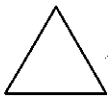
_____

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

$\frac{8}{10}$ _____

$\frac{3}{4}$ _____

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

If  is $\frac{1}{3}$, what is the whole?

Equation: _____

Use manipulatives or drawings to help you solve #3-5.

3) Owen, Madeline, and Jonah shared a bowl of ice cream.
Owen ate $\frac{4}{8}$, Madeline ate $\frac{3}{8}$, and Jonah ate $\frac{1}{8}$.
How much of the ice cream did they eat?

Number model with unknown: _____

Answer: _____ bowl

Unit 5 Review (continued)

4) Mr. Clark used $1\frac{2}{6}$ cups of tomatoes to make salsa.

Mrs. Sanchez used $3\frac{2}{6}$ cups of tomatoes. How much salsa did they make together?

Number model with unknown:_____

Answer:_____ cups

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

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

c. $3\frac{2}{4} + 4\frac{3}{4} =$ _____ d. $2\frac{2}{6} + 4\frac{3}{6} =$ _____

6) Solve.

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

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

7) During a soccer game, Olivia drank $\frac{5}{8}$ of a liter of water.

Jacob drank $\frac{7}{8}$ of a liter. How much more did Jacob drink than Olivia?

Number model with unknown:_____

Answer:_____ liter

Unit 5 Review (continued)

8) Myles lives $2\frac{2}{4}$ miles from the pool. He lives $3\frac{1}{4}$ miles from the baseball field. How much further is the baseball field than the pool?

Number model with unknown:_____

Answer:_____ miles

Subtract.

9)

a. $\frac{3}{4} - \frac{1}{4} =$ _____ b. _____ $= \frac{7}{8} - \frac{3}{8}$

c. $3\frac{2}{3} - 1\frac{1}{3} =$ _____ d. _____ $= 5\frac{3}{10} - 3\frac{6}{10}$

10) Use the data to create a line plot and answer questions about it. The students in Mrs. Carrera's class measured their pencils to the nearest half inch. The measurements they gathered were:

6, 6½, 7½, 5½, 6, 6½, 7, 7½, 5½, 5½, 6½

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

b. What is the length of the shortest pencil?

_____ in

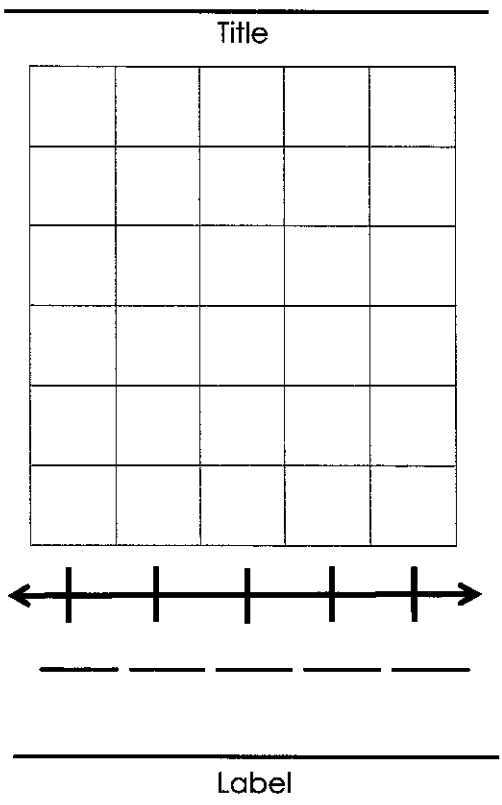
c. What is the length of the longest pencil?

_____ in

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

_____

Answer: _____ in



Unit 5 Review (continued)

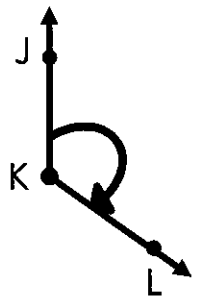
11) Draw pictures of these turns, using an arc to show the direction of each one. The vertex of the angle and one side have already been drawn for you.

a. ½ turn counterclockwise

b. ¾ turn clockwise

12) a) Estimate the size of each angle at the right.

Circle the best answer.



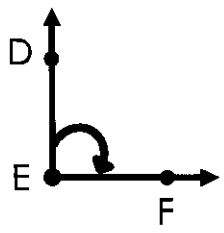
0-45 degrees

45 degrees

90-180 degrees

Angle LMN is a(n) _____ (acute, obtuse, or right) angle.

b) Estimate the size of each angle at the right.
Circle the best answer.



0-45 degrees

45 degrees

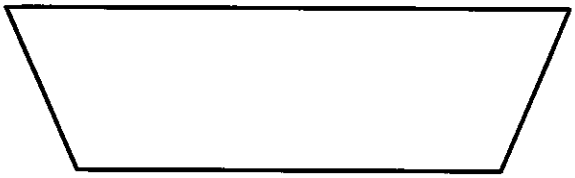
90-180 degrees

Angle LMN is a(n) _____ (acute, obtuse, or right) angle.

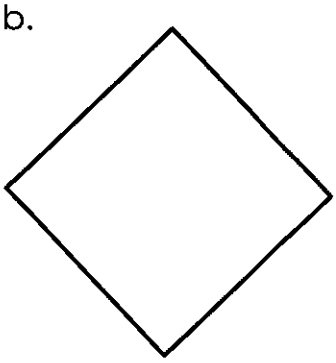
Unit 5 Review (continued)

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

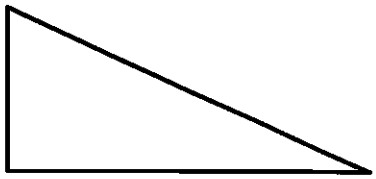
a.



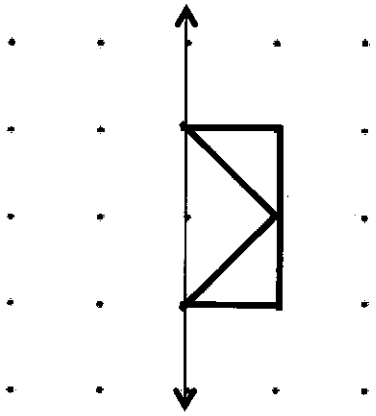
b.



c.



14) Draw the other half to make a symmetrical shape.



15) Four brothers each went to purchase a baseball card binder and packs of baseball cards. Together they have $63. If each binder was $8 and each pack of cards was $6, how much money will they have left over after they purchase all of the items?

Number model with unknown: _____

Answer with unit:_____

Name: *ANSWER KEY* Date: _____

EVERYDAY MATHEMATICS—4th Grade
Unit 5 Review: Fractions and Mixed Number Computation; Measurement

1) a. Write an equation to show $\frac{3}{6}$ as the sum of unit fractions.

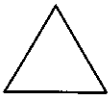
$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{3}{6}$

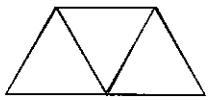
b. Decompose each fraction in two different ways. Write equations to show each fraction as a sum of fractions with the same denominator.

$\frac{8}{10}$ Possible Answers: $\frac{4}{10} + \frac{2}{10} + \frac{2}{10} = \frac{8}{10}$; $\frac{2}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{3}{10} = \frac{8}{10}$

$1\frac{3}{4}$ Possible Answers: $\frac{4}{4} + \frac{2}{4} + \frac{1}{4} = 1\frac{3}{4}$; $\frac{4}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1\frac{3}{4}$

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

If  is $\frac{1}{3}$, what is the whole?



Equation: $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} = 1$

Use manipulatives or drawings to help you solve #3-5.

3) Owen, Madeline, and Jonah shared a bowl of ice cream.
Owen ate $\frac{4}{8}$, Madeline ate $\frac{3}{8}$, and Jonah ate $\frac{1}{8}$.
How much of the ice cream did they eat?

Number model with unknown: $\frac{4}{8} + \frac{3}{8} + \frac{1}{8} = \square$

Answer: $\frac{8}{8}$, or 1 bowl

Unit 5 Review (continued) *ANSWER KEY*

4) Mr. Clark used $1\frac{2}{6}$ cups of tomatoes to make salsa.

Mrs. Sanchez used $3\frac{2}{6}$ cups of tomatoes. How much salsa did they make together?

Number model with unknown: $1\frac{2}{6} + 3\frac{2}{6} = c$

Answer: $4\frac{4}{6}$ cups

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

a. $\frac{5}{8} + \frac{6}{8} = \frac{11}{8}$ or $1\frac{3}{8}$

b. $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

c. $3\frac{2}{4} + 4\frac{3}{4} = \frac{31}{4}$ or $8\frac{1}{4}$

d. $2\frac{2}{6} + 4\frac{3}{6} = \frac{41}{6}$ or $6\frac{5}{6}$

6) Solve.

$\frac{4}{10} + \frac{30}{100} = \frac{7}{10}$ or $\frac{70}{100}$

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

7) During a soccer game, Olivia drank $\frac{5}{8}$ of a liter of water.

Jacob drank $\frac{7}{8}$ of a liter. How much more did Jacob drink than Olivia?

Number model with unknown: $\frac{7}{8} - \frac{5}{8} = L$

Answer: $\frac{2}{8}$ liter

Unit 5 Review (continued) *ANSWER KEY*

8) Myles lives $2\frac{2}{4}$ miles from the pool. He lives $3\frac{1}{4}$ miles from the baseball field. How much further is the baseball field than the pool?

Number model with unknown: $3\frac{1}{4} - 2\frac{2}{4} = m$

Answer: $\frac{3}{4}$ miles

Subtract.

9)

a. $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$

b. $\frac{4}{8} = \frac{7}{8} - \frac{3}{8}$

c. $3\frac{2}{3} - 1\frac{1}{3} = 2\frac{1}{3}$

d. $1\frac{7}{10} = 5\frac{3}{10} - 3\frac{6}{10}$

10) Use the data to create a line plot and answer questions about it. The students in Mrs. Carrera's class measured their pencils to the nearest half inch. The measurements they gathered were:
6, 6½, 7½, 5½, 6, 6½, 7, 7½, 5½, 5½, 6½

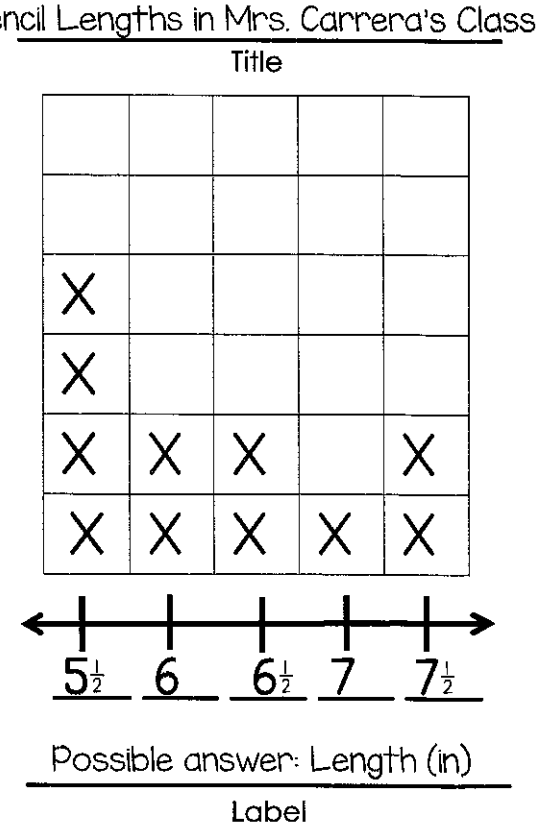
a. Make a line plot displaying the data. Be sure to include a title and label.

b. What is the length of the shortest pencil?
$5\frac{1}{2}$ in

c. What is the length of the longest pencil?
$7\frac{1}{2}$ in

d. What is the difference in length between the longest and shortest pencils? Write a number model to show your solution.
$7\frac{1}{2} - 5\frac{1}{2} = d$

Answer: 2 in

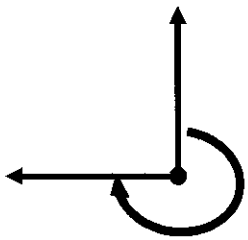


Unit 5 Review (continued) *ANSWER KEY*

11) Draw pictures of these turns, using an arc to show the direction of each one. The vertex of the angle and one side have already been drawn for you.

a. ½ turn counterclockwise

b. ¾ turn clockwise



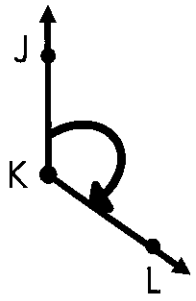
12) a) Estimate the size of each angle at the right.

Circle the best answer.

0-45 degrees

45 degrees

(90-180 degrees)



Angle JKL is a(n) obtuse (acute, obtuse, or right) angle.

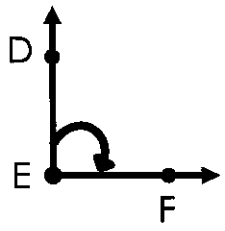
b) Estimate the size of each angle at the right.

Circle the best answer.

0-45 degrees

45 degrees

(90-180 degrees)

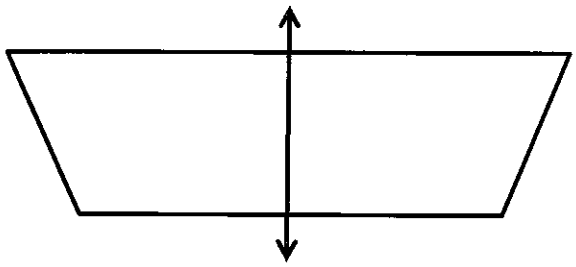


Angle LMN is a(n) right (acute, obtuse, or right) angle.

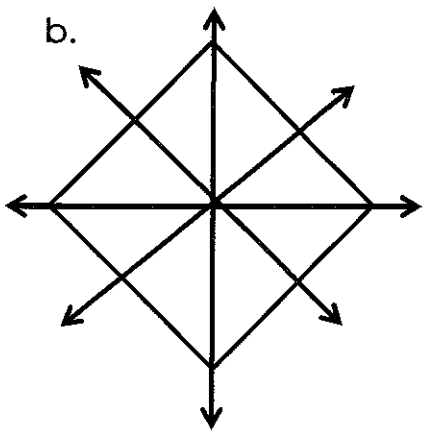
Unit 5 Review (continued) *ANSWER KEY*

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

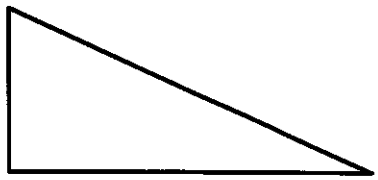
a.



b.

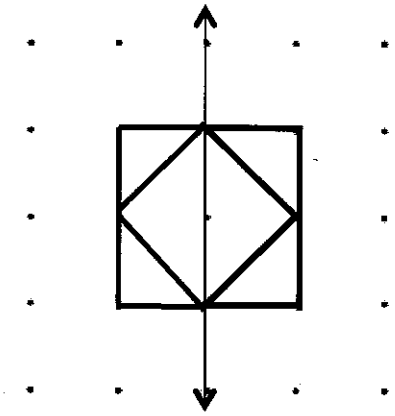


c.



(no lines of symmetry)

14) Draw the other half to make a symmetrical shape.



15) Four brothers each went to purchase a baseball card binder and packs of baseball cards. Together they have $63. If each binder was $8 and each pack of cards was $6, how much money will they have left over after they purchase all of the items?

Number model with unknown: Possible answer: $63 - ($8 * 4) + ($6 * 4) = m

Answer with unit: $7