Topic 10 Study Guide

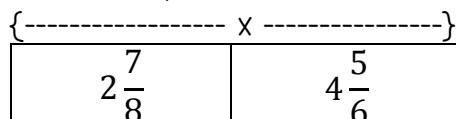1. Which expression is the best estimate for $1\frac{3}{4} + 2\frac{3}{8}$?
   a. 2 + 2
   b. 1 + 2
   c. 2 + 3
   d. 1 + 3

2. George drank $\frac{11}{4}$ bottles of water during a soccer game. What is this number expressed as a mixed number?

3. Which expression does the model show?

   a. $3\frac{3}{8} + \frac{5}{8}$ b. $3\frac{3}{8} + 2\frac{5}{8}$ c. $3\frac{3}{8} - 2\frac{5}{8}$ d. $3\frac{3}{8} - \frac{5}{8}$
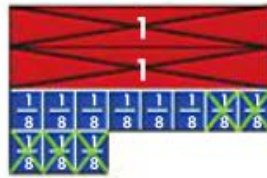
4. Marie needs $2\frac{1}{4}$ yards of fabric. She already has $1\frac{3}{8}$ yards. How many more yards of fabric does she need? Show your work.

5. The Jacobs went on a 600-mile trip. On the first day they drove $5\frac{2}{3}$ hours and on the second day they drove $4\frac{3}{5}$ hours. How many hours did they drive during the first two days?

6. Which equation does NOT match the picture?

{----------------- X ---------------}

| $2\frac{7}{8}$ | $4\frac{5}{6}$ |

   a. $x - 2\frac{7}{8} = 4\frac{5}{6}$ b. $x = 2\frac{7}{8} + 4\frac{5}{6}$ c. $x = 4\frac{5}{6} - 2\frac{7}{8}$ d. $x - 4\frac{5}{6} = 2\frac{7}{8}$
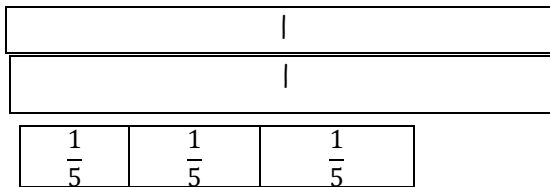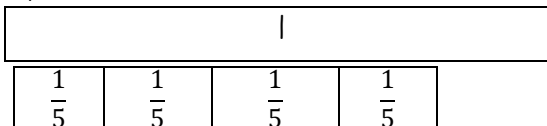
7. Rick made a paper football that was $1\frac{1}{6}$ inches long. Carly made one that was $\frac{5}{6}$ of an inch long. How much longer was Rick's paper football than Carly's? Show your work.

8. Mary weighed $7\frac{1}{2}$ pounds when she was born. What number makes the statement true?

$$7\frac{1}{2} = \frac{?}{2}$$

9. What expression does the model show?

1			
$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$

1
1

$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$

10. The square below has sides that are $1\frac{1}{4}$ inches long. What is the perimeter of the square? Write an addition equation to solve.
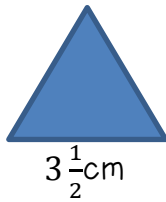
$1\frac{1}{4}$in.

11. What is the sum of $1\frac{7}{8} + 2\frac{3}{8}$? Show your work.

12. Dawson says that when you simplify the expression $(2\frac{4}{10} + 8\frac{4}{5}) - 3\frac{1}{5}$ you get a whole number. What whole number do you get?

13. The equilateral triangle below has sides that are $3\frac{1}{2}$ cm long. What is the perimeter of the triangle? Write an addition equation to solve.

$3\frac{1}{2}$cm

14. The main ingredients for Kayla's banana bread recipe are $2\frac{1}{3}$ cups of flour, $\frac{3}{4}$ cup of sugar, and $1\frac{1}{2}$ cups of mashed bananas. How many more cups of dry ingredients (flour and sugar) than wet ingredients (bananas) go into Kayla's banana bread? Explain.