5.2 Adding and Subtracting Mixed Numbers

Name_____

Evaluate the expression. Simplify if possible.

1) $13\frac{5}{6}-9\frac{1}{6}=$

2) $22\frac{2}{7}+17\frac{4}{7}=$

3) $4\frac{1}{4}+3\frac{3}{8}=$

4) $5\frac{1}{4}+2\frac{5}{6}=$

5) $8\frac{1}{6}-5\frac{5}{6}=$

6) $12\frac{3}{4}-9\frac{1}{6}=$

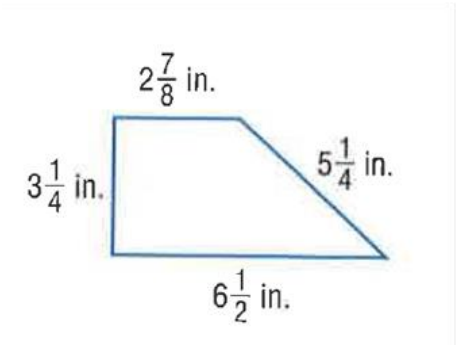
7) $8\frac{2}{3}-5\frac{4}{9}=$

8) $9-7\frac{4}{9}=$

9) A rectangle is $2\frac{1}{2}$ inches long. Its width is $1\frac{1}{8}$ inches less than its length. Find the perimeter of the rectangle.

10) At track practice, you run $5\frac{1}{2}$ miles. You cool down by walking a distance of $1\frac{1}{3}$ miles. What is your total distance?

11) Find the perimeter of the trapezoid.



12) **Describe and correct** the error made in finding the difference.

$$3\frac{1}{6}-1\frac{5}{6}=2\frac{4}{6}=2\frac{2}{3}$$

Describe: _____

Correct:

13) Finish the problem: $3\frac{2}{5}-1\frac{7}{10}=$

$$\frac{17}{5}-\frac{17}{10}=$$

$$\frac{34}{10}-\frac{17}{10}=$$

Concept Review

14) Compare the fractions by finding the least common denominator. Use <, >, or =.

$$\frac{8}{15} \_\_\_\_\_ \frac{5}{9}$$