

Name: \_\_\_\_\_

## Arithmetic Operations with Rational Numbers

Solve the following add/subtract fraction word problems.

- 1) Find the total width of 3 boards that  $1\frac{3}{4}$  inches wide,  $\frac{7}{8}$  inch wide, and  $1\frac{1}{2}$  inches wide.
- 2) A 7.15H tire is  $6\frac{5}{8}$  inches wide and a 7.15C tire is  $4\frac{3}{4}$  inches wide. What is the difference in their widths?
- 3) A patient is given  $1\frac{1}{2}$  teaspoons of medicine in the morning and  $2\frac{1}{4}$  teaspoons at night. How many teaspoons total does the patient receive daily?
- 4)  $3\frac{1}{3}$  feet are cut off a board that is  $12\frac{1}{4}$  feet long. How long is the remaining part of the board?
- 5) A runner jogs  $7\frac{1}{5}$  miles east,  $5\frac{1}{4}$  miles south, and  $8\frac{2}{3}$  miles west. How far has she jogged?

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- 6) If  $3\frac{1}{2}$  ounce of cough syrup is used from a  $9\frac{1}{4}$  ounce bottle, how much is left?
- 7) I set a goal to drink 64 ounces of water a day. If I drink  $10\frac{1}{3}$  ounces in the morning,  $15\frac{1}{2}$  ounces at noon, and  $20\frac{5}{6}$  ounces at dinner, how many more ounces of water do I have to drink to reach my goal for the day?
- 8) Three sides of parking lot are measured to the following lengths:  $108\frac{1}{4}$  feet,  $162\frac{3}{8}$  feet, and  $143\frac{1}{2}$  feet. If the distance around the lot is  $518\frac{15}{16}$  feet, find the fourth side.
- 9) Gabriel wants to make five banners for the parade. He has 75 feet of material. The size of four of the banners are:  $12\frac{1}{3}$  ft.,  $16\frac{1}{6}$  ft.,  $11\frac{3}{4}$  ft., and  $14\frac{1}{2}$  ft. How much material is left for the fifth banner?