Name _____ Date _____

Fraction Word Problems: Sums and Differences with Unlike Denominators

Directions: Every story gives each amount you need. When you add or subtract, rename the fractions with a common denominator first. Type a fraction with a slash, as in 5/8, and leave a space inside a mixed number, as in 1 3/4.

1. Naomi walks 2/3 mile to the library. Then she walks 1/6 mile more to the park. How far does she walk in all? Type the distance as a fraction in simplest form, like 4/9.

Naomi walks _____ mile in all.

2. A pancake recipe needs 3/4 cup of milk. Omar has only 1/3 cup. How much more milk does he need? Give the amount as a fraction in simplest form, typed with a slash, as in 2/7.

Omar needs _____ cup more.

3. Kiara buys 5/8 pound of grapes and 7/12 pound of cherries. Without adding, what can you tell about the total weight?

A. It is exactly 12/20 pound, because $5 + 7 = 12$ and $8 + 12 = 20$.

B. It is less than 1 pound, because each amount is less than 1 pound.

C. It is more than 1 pound, because each amount is more than 1/2 pound.

4. Mia has 7/8 yard of ribbon. She uses 1/3 yard for a bookmark. Two students find how much ribbon is left.

• Dev subtracts the numerators and the denominators. He writes 6/5 yards.
• Ana renames the fractions as 21/24 and 8/24. She writes 13/24 yard.

Who is right, and how can you tell?

A. Both, because 6/5 and 13/24 are two names for one amount.

B. Dev, because $7 - 1 = 6$ and $8 - 3 = 5$.

C. Neither, because the two amounts should be added, not subtracted.

D. Ana, because $21/24 - 8/24 = 13/24$, and 13/24 yard is less than the 7/8 yard Mia started with.

5. On a hike, Rafael walks 4/5 mile to a lake and then 1/2 mile to a lookout. Find the total distance. It is more than 1 mile, so type it as a mixed number in simplest form, like 2 1/5.

Rafael walks _____ miles.

6. A board is 5/6 yard long. Carlos saws off a piece that is 1/4 yard long. Which equation can he use to find the length of the board that is left?

A. $1/4 - 5/6 = ?$ B. $5/6 - 1/4 = ?$ C. $5/6 + 1/4 = ?$

7. Jada has 7/8 pound of clay. She uses 1/4 pound to make a bowl and 1/2 pound to make a cup. How much clay does she have left? Write the amount as a fraction in simplest form, such as 4/5.

Jada has _____ pound of clay left.

8. Jonas runs 9/10 mile on Monday and 1/12 mile on Tuesday. About how far does he run on the two days?

A. about 1/2 mile B. about 1 mile C. about 2 miles

9. A measuring cup holds exactly 1 cup. Which pairs of amounts are too much to pour into the cup together? Select the two that add up to more than 1 cup.

☐ A. 2/5 cup and 1/2 cup ☐ B. 1/2 cup and 3/8 cup

☐ C. 1/2 cup and 3/5 cup ☐ D. 3/4 cup and 1/3 cup

☐ E. 1/3 cup and 1/4 cup

10. A roll has 2 1/2 yards of wrapping paper. Lia cuts off 3/4 yard for one gift and 2/3 yard for another gift. How much paper is left on the roll? Type a mixed number in simplest form, with a space after the whole number, like 3 2/5.

The roll has _____ yards of paper left.