

Name: ..... Class: .....

Add and subtract fractions with unlike denominators - word problems

1. Eve went to her father's farm and picked some apples. She gave  $\frac{5}{9}$  of the apples to her friend, Benjamin, and  $\frac{1}{6}$  of the apples to her junior sister, Nancy. How many of the apples did she give away ?
2. Brightly is a bright student. Her math teacher gives them homework everyday. It took Brightly  $\frac{3}{4}$  of an hour to complete her math homework on wednesday,  $\frac{6}{9}$  of an hour on thursday and  $\frac{5}{12}$  of a hour on friday. How many hours did she take to complete her homework altogether ?  
(write your answer as a mixed number).
3. Jasper and James are both taking the final test for their driving lessons. On the day of the test, Jasper drives  $\frac{7}{8}$  of a mile while James drives  $\frac{1}{2}$  of a mile. How much farther does Jasper drives than James ?
4. Last week, Mr. White filled a keg of wine with  $\frac{1}{3}$  of a gallon of wine. Today, during wine testing, he discovered that only  $\frac{1}{4}$  of a gallon of wine was left in the keg. What fraction of the wine had leaked out of the keg?
5. Yesterday, Patrick bought  $\frac{5}{6}$  of a pound of apples from the farmer's market. His younger sister ate  $\frac{1}{4}$  of a pound of the apples. When Patrick returned from school that afternoon and realized what his sister had done, he got so angry and shouted "you left just  $\frac{3}{4}$  of a pound to me". Was he right?

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1. ▶ Benjamin:  $\frac{5}{9}$   
 ▶ Nancy:  $\frac{1}{6}$   
 ▶ LCM of 9 and 6 is 18

Therefore, Eve gave away  $\frac{13}{18}$  of the apples.

2. ▶ Wednesday:  $\frac{3}{4}$  of an hour  
 ▶ Thursday:  $\frac{6}{9}$  of an hour  
 ▶ Friday:  $\frac{5}{12}$  of an hour  
 ▶ LCM of 4, 9 and 12 is 36

Therefore, she took  $1\frac{5}{6}$  of an hour.

3. ▶ Jasper:  $\frac{7}{8}$  of a mile  
 ▶ James:  $\frac{1}{2}$  of a mile  
 ▶ LCM of 8 and 2 is 8

Therefore, Jasper drove  $\frac{3}{8}$  of a mile farther than James.

4. ▶ Quantity of wine he filled in the keg of wine =  $\frac{1}{3}$  of a gallon  
 ▶ Quantity of wine left in the keg of wine =  $\frac{1}{4}$

Therefore,  $\frac{1}{12}$  fraction of the wine had leaked out of the keg.

5. ▶ Quantity of a pound of apple Patrick bought =  $\frac{5}{6}$   
 ▶ Quantity of a pound of apple his sister ate =  $\frac{1}{4}$

Therefore, his sister left just  $\frac{7}{12}$  of a pound of apple for him.