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

Add and subtract fractions with unlike denominator - word problems

a. Eve went to her father's farm and picked some apples. She gave 5/9 of the apples to her friend, Benjamin, and 1/6 of the apples to her junior sister, Nancy. How many of the apples did she give away?

b. Brightly is a bright student. Her math teacher gives them homework everyday. It took Brightly 3/4 of an hour to complete her math homework on wednesday, 6/9 of an hour on thursday and 5/12 of an hour on friday. How many hours did she take to complete her homework altogether? (write your answer as a mixed number).

c. Jasper and James are both taking to the final test for their driving lessons. On the day of the test, Jasper drives 7/8 of a mile while James drives 1/2 of a mile. How much farther does Jasper drives than James?

d. Yesterday, Patrick bought 5/6 of a pound of apples from the farmer's market. His younger sister ate 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 3/4 of a pound to me?" Was he right?

e. Last week, Mr. White filled a keg of wine with 1/3 of a gallon of wine. Today, during wine testing, he discovered that only 1/4 of a gallon of wine was left in the keg. What fraction of the wine had leaked out of the keg?

f. At the party, 5/16 people didn't mind jazz music or classical music. If 1/5 of the people didn't have a say, what fraction of the people at the party mind jazz music and classical music?

g. Beryl has two bars of candies. She divided one of her candies into pieces and shared it between Jude and Julia. Jude received 1/6 and Julia received 1/2. What fraction of candy is left?

h. Joseph completed 3/14 of his graduation thesis in April. In May, he completed 1/4 of the thesis. In June, he completed 3/7 of the project. How much of the project has he completed so far?

MP

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a. Eve went to her father's farm and picked some apples. She gave 5/9 of the apples to her friend, Benjamin, and 1/6 of the apples to her junior sister, Nancy. How many of the apples did she give away?

Addition

▸ Benjamin: 5/9
▸ Nancy: 1/6
▸ LCM of 9 and 6 is 18

$$\frac{5}{9} + \frac{1}{6} = \frac{10}{18} + \frac{3}{18} = \frac{13}{18}$$

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

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

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

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

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

f. So, $\frac{9}{80}$ of the people mind jazz music and classical music.

g. So, $\frac{1}{3}$ of candy is left.

h. So, he has completed $1\frac{3}{7}$ of the project so far.