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

Add and subtract fractions with unlike denominator - word problems

1. 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 ?

2. 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 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 to the final test fir 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 ?

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

Add and subtract fractions unlike denominator - word problems

1. 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.

2. 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 a hour on friday. How many hours did she take to complete her homework altogether ?
(write your answer as a mixed number).

Addition

▸ Wednesday: 3/4 of an hour
▸ Thursday: 6/9 of an hour
▸ Friday: 5/12 of an hour
▸ LCM of 4, 9 and 12 is 36

$$\frac{27}{36} + \frac{24}{36} + \frac{15}{36} = \frac{27+24+15}{36} = \frac{66}{36} = \frac{11}{6}$$

$$6 \overline{\big)\, 11} \quad \begin{array}{c} 6 \\ \hline \end{array}$$
$$\underline{-6} \qquad = 1\frac{5}{6}$$
$$5$$

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

3. 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 ?

Subtraction

▸ Jasper: 7/8 of a mile
▸ James: 1/2 of a mile
▸ LCM of 8 and 2 is 8

$$\frac{7}{8} - \frac{1}{2} = \frac{7}{8} - \frac{4}{8} = \frac{3}{8}$$

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