

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 $\frac{5}{9}$ 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 ?
- b. 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 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 $\frac{7}{8}$ of a mile while James drives $\frac{1}{2}$ of a mile.
How much farther does Jasper drives than James ?



Name: Class:

Add and subtract fractions unlike denominator - word problems

- a. 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 ?

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

Addition

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

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

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

- ▶ 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

Addition

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

$$\begin{array}{r} 6 \\ 6 \overline{) 11} \\ \underline{-6} \\ 5 \end{array} = 1 \frac{5}{6}$$

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

- c. Jasper and James are both taking to 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 ?

- ▶ Jasper drives $\frac{7}{8}$ of a mile
- ▶ James drives $\frac{1}{2}$ of a mile
- ▶ LCM of 8 and 2 is 8

Subtraction

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

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

