

Name: Class:

Adding and Subtracting Fractions with Unlike Denominators Word Problems

a.

I read $\frac{3}{9}$ of a book on Monday, $\frac{1}{8}$ of the same book on Saturday, and $\frac{2}{8}$ more of the book on Sunday.

How much of the book have I read?

b.

In Sophia's school, $\frac{2}{14}$ of the students drive to school. $\frac{4}{15}$ of the students ride on the bus.

What fraction of the students walks or cycle to school?

c.

Samantha has a ribbon that is $\frac{6}{8}$ meters long. She cuts out $\frac{2}{11}$ to decorate a gift for her friend.

How much ribbon is left?

d.

Colt, Riley, and Damien each bought a cake. Colt ate $\frac{3}{7}$ of his cake. Riley ate $\frac{2}{6}$ of his cake. Damien ate $\frac{2}{8}$ of his cake.

How much cake did they eat all together?

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- a. Fraction of the book I read on Monday = $\frac{3}{9}$
 Fraction of the book I read on Saturday = $\frac{1}{8}$
 Fraction of the book I read on Sunday = $\frac{2}{8}$

Therefore, fraction of the book I have read =
 fraction of the book I read on Monday + fraction of the book
 I read on Saturday + fraction of the book I read on Sunday

$$\frac{3}{9} + \frac{1}{8} + \frac{2}{8} = \frac{(3 \times 8) + (1 \times 9) + (2 \times 9)}{72} = \frac{24 + 9 + 18}{72} = \frac{51}{72} = \frac{17}{24}$$

So, I have read $\frac{17}{24}$ of the book

b. $\frac{62}{105}$ of the students walks or cycle to school

c. $\frac{25}{44}$ of the ribbon is left

d. They ate $1 \frac{1}{84}$ cake in all.