## Fraction Strategies <br> Comparing Apples With Apples 1

Book 7 Pages 38-40

We are learning to add and subtract fractions with like denominators.

Equipment: Fraction Strips
Note: Students need to be familiar with the structure of the fraction strips, particularly ideas about equivalence, eg. $\frac{3}{12}=\frac{1}{4}$

Problem: Model the following action with fraction strips:
Make four-sixths and five-sixths separately. Now join the two fractions together, end on end.
How many sixths is that altogether?
$\frac{9}{6}$
Write it as an equation.
$\frac{4}{6}+\frac{5}{6}=\frac{9}{6}$
How else can the answer be written?
$\frac{9}{6}=\frac{3}{2}$ or $1 \frac{1}{2}$

| 1 |  |  |  |  |  |  |  | $\frac{1}{2}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ |  |  |

## Exercise 1

Use the fraction strips or otherwise to find and simplify the following:

1) $\frac{2}{5}+\frac{1}{5}$
(2) $\frac{3}{4}+\frac{5}{4}$
(3) $\frac{3}{10}+\frac{5}{10}$
(4) $\frac{4}{6}+\frac{3}{6}$
2) $\frac{9}{10}-\frac{6}{10}$
(6) $\frac{3}{4}-\frac{1}{4}$
(7) $\frac{9}{6}-\frac{8}{6}$
(8) $\frac{9}{8}-\frac{5}{8}$
3) $\frac{13}{8}-\frac{7}{8}$
(10) $\frac{7}{2}-\frac{4}{2}$

## Exercise 2: Word Problems

1) Tenielle and Sarah visited Domino's Pizza store and bought a large Hawaiian Pizza to share. Tenielle ate $\frac{2}{8}$ and Sarah $\frac{3}{8}$ each of the pizza. How much of the pizza had they eaten altogether? What fraction of the pizza is left?
2) Josh, Sebastian, Matt, and Royce also visited Domino's Pizza store and bought three large pizzas to share. If they ate $\frac{3}{6}, \frac{2}{6}, \frac{5}{6}$, and $\frac{4}{6}$ respectively of the pizzas, what fraction have they eaten altogether? What fraction of the pizzas is left?

## Comparing Apples With Apples: Answers

## Exercise 1:

1) $\frac{3}{5}$
(2) $\frac{8}{4}=2$
(3) $\frac{8}{10}=\frac{4}{5}$
(4) $\frac{7}{6}=1 \frac{1}{6}$
(5) $\frac{3}{10}$
2) $\frac{2}{4}=\frac{1}{2}$
(7) $\frac{1}{6}$
(8) $\frac{4}{8}=\frac{1}{2}$
(9) $\frac{6}{8}=\frac{3}{4}$
(10) $\frac{3}{2}=1 \frac{1}{2}$

Exercise 2:

1) $\frac{5}{8}$ and $\frac{3}{8}$ left
2) $\frac{14}{6}$ and $\frac{4}{6}=\frac{2}{3}$ left
