

### 3.1.2 Portions as Percents

Essential Question: How will I develop an understanding of percents as a way to express and compare portions of a whole?

BIG IDEAS: portion (a.k.a numerator)	a part of a whole Ex. $\frac{5}{100}$ ← portion 100 ← whole
estimate	to make a close guess to the actual value with some thought involved.
percent	a number that can be written as a fraction with a denominator of 100.
fraction	one form of a part of a whole
denominator	the lower part of a fraction, which expresses how many equal parts the whole is divided.
lowest common denominator (LCD)	the smallest common multiple of the denominators of two or more fractions Ex. $\frac{5}{12} = \frac{\quad}{24}$ $\frac{3}{8} = \frac{\quad}{24}$
numerator	the number above the bar in a fraction that tells the number of parts to the whole.
sample	a small group chosen from the larger population

### 3.1.2 continued

#### BIG IDEAS:

Adding and Subtracting Fractions

Same denominator: simply add or subtract the numerator

$$\text{Ex. } \frac{1}{5} + \frac{2}{5} = \frac{3}{5}$$

Different denominators:

- 1) Write original problem
- 2) Re-write problem using common denominators

$$\text{Ex. } \frac{5}{12} + \frac{3}{8}$$

$$\frac{5}{12} \cdot \frac{2}{2} = \frac{10}{24}$$

$$+ \frac{3}{8} \cdot \frac{3}{3} = \frac{9}{24}$$

$$\frac{19}{24}$$

$$\text{Ex. } \frac{5}{12} - \frac{3}{8}$$

$$\frac{5}{12} \cdot \frac{2}{2} = \frac{10}{24}$$

$$- \frac{3}{8} \cdot \frac{3}{3} = \frac{9}{24}$$

$$\frac{1}{24}$$