Name _____   Date _____
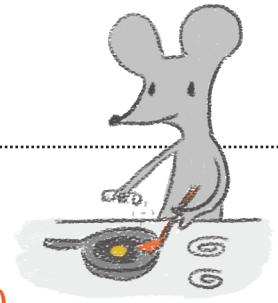
Delicious Decimals
Expanded Form Practice

When you write a decimal in its expanded form, pay attention to place value! Multiply each digit by its place value and write them in an addition expression.

Example: 53.572

$(5 \times 10) + (3 \times 1) + (5 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) = 53.572$

Directions: Write each decimal in expanded form.

1. 749.173 = $(7 \times 100) + (4 \times 10) + (9 \times 1) + (1 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (3 \times \frac{1}{1000})$

2. 32.846 = $(3 \times 10) + (2 \times 1) + (8 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (6 \times \frac{1}{1000})$

3. 839.21 = $(8 \times 100) + (3 \times 10) + (9 \times 1) + (2 \times \frac{1}{10}) + (1 \times \frac{1}{100})$

4. 436.834 = $(4 \times 100) + (3 \times 10) + (6 \times 1) + (8 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (4 \times \frac{1}{1000})$

5. 2.948 = $(2 \times 1) + (9 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (8 \times \frac{1}{1000})$

When you write expanded form as a decimal, pay attention to place value! Then, multiply each digit by its place value and add them together.

Example: $(5 \times 10) + (3 \times 1) + (5 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (2 \times \frac{1}{1000})$

53.572

Directions: Write each expanded form as a decimal.

1. $(6 \times 10) + (8 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (9 \times \frac{1}{1000})$ = 60.839

2. $(3 \times 100) + (6 \times 10) + (7 \times 1) + (6 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (8 \times \frac{1}{1000})$ = 367.618

3. $(1 \times 100) + (9 \times 10) + (6 \times 1) + (8 \times \frac{1}{10}) + (8 \times \frac{1}{100})$ = 196.88

4. $(9 \times 100) + (7 \times 10) + (5 \times 1) + (3 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (5 \times \frac{1}{1000})$ = 975.385

5. $(7 \times 100) + (6 \times 1) + (4 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (3 \times \frac{1}{1000})$ = 706.473