

| Decimals            |                                         |                |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |
|---------------------|-----------------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| Key Vocabulary      | Tenths and Hundredths                   |                |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |
| tenths              | Tenths                                  | $\frac{0}{10}$ | $\frac{1}{10}$  | $\frac{2}{10}$  | $\frac{3}{10}$  | $\frac{4}{10}$  | $\frac{5}{10}$  | $\frac{6}{10}$  | $\frac{7}{10}$  | $\frac{8}{10}$  | $\frac{9}{10}$  | $\frac{10}{10}$  |
| hundredths          |                                         |                | 0               | 0.1             | 0.2             | 0.3             | 0.4             | 0.5             | 0.6             | 0.7             | 0.8             | 0.9              |
| decimal tenths      | Hundredths                              | $\frac{0}{10}$ | $\frac{1}{100}$ | $\frac{2}{100}$ | $\frac{3}{100}$ | $\frac{4}{100}$ | $\frac{5}{100}$ | $\frac{6}{100}$ | $\frac{7}{100}$ | $\frac{8}{100}$ | $\frac{9}{100}$ | $\frac{10}{100}$ |
| decimal hundredths  |                                         | 0              | 0.01            | 0.02            | 0.03            | 0.04            | 0.05            | 0.06            | 0.07            | 0.08            | 0.09            | 0.1              |
| decimal equivalents | Tenth and Hundredth Decimal Equivalents |                |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |
| part-whole model    |                                         |                |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |
| rounding            |                                         |                |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |
| decimal point       |                                         |                |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |
| place value         |                                         |                |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |

## Key Vocabulary

**tenths**

**hundredths**

**decimal tenths**

**decimal hundredths**

## decimal equivalents

## part-whole model

## rounding

**decimal point**

**place value**

## Tenths and Hundredths

## Tenths

Hundredths

## Fraction and Decimal Equivalents

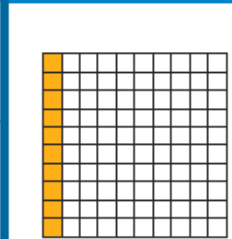
 =  $\frac{1}{2}$  = 0.5

 =  $\frac{1}{4}$  = 0.25

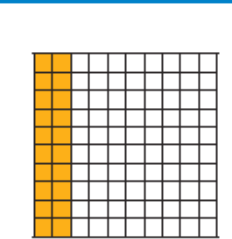
 =  $\frac{3}{4}$  = 0.75

 =  $\frac{1}{10}$  = 0.1

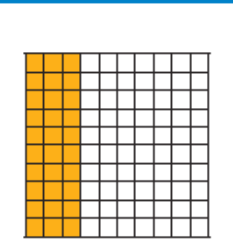
## Tenth and Hundredth Decimal Equivalents



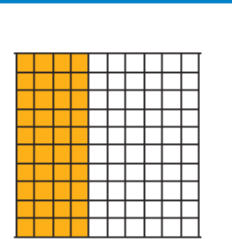
$$\frac{1}{10} = \frac{10}{100} = 0.1$$



$$\frac{2}{10} = \frac{20}{100} = 0.2$$



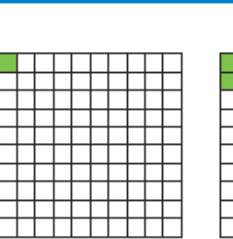
$$\frac{3}{10} = \frac{30}{100} = 0.3$$



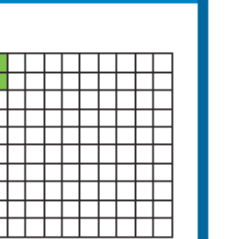
$$\frac{4}{10} = \frac{40}{100} = 0.4$$



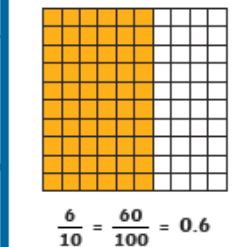
$$\frac{5}{10} = \frac{50}{100} = 0.5$$



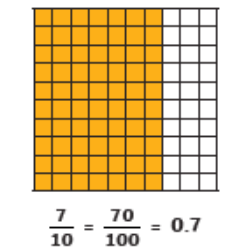
$$\frac{1}{100} = 0.01$$



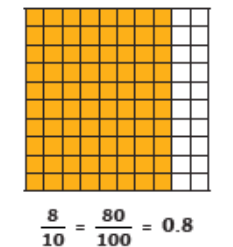
$$\frac{2}{100} = 0.02$$



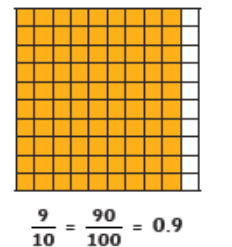
$$\frac{6}{10} = \frac{60}{100} = 0.6$$



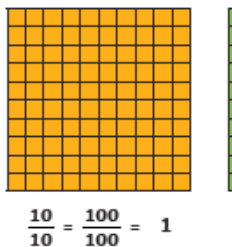
$$\frac{7}{10} = \frac{70}{100} = 0.7$$



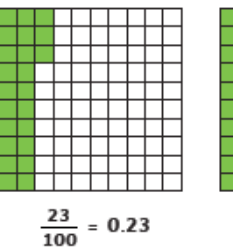
$$\frac{8}{10} = \frac{80}{100} = 0.8$$



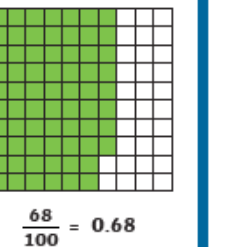
$$\frac{9}{10} = \frac{90}{100} = 0.9$$



$$\frac{10}{10} = \frac{100}{100} = 1$$



$$\frac{23}{100} = 0.23$$



$$\frac{68}{100} = 0.68$$

# Decimals

## Dividing by 10

| Tens | Ones |           |
|------|------|-----------|
| 8    | 5    | $\div 10$ |

| Tens | Ones | Tenths |
|------|------|--------|
|      | 8    | 5      |

Arrows indicate the shift: from Tens to Ones ( $\div 10$ ) and from Ones to Tenths ( $\div 10$ ).

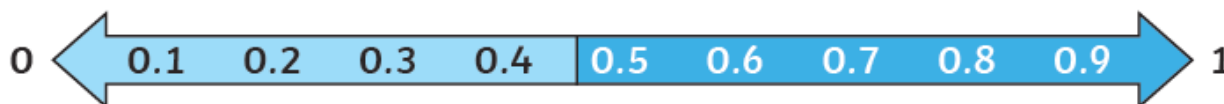
## Dividing by 100

| Tens | Ones |            |
|------|------|------------|
| 8    | 5    | $\div 100$ |

| Tens | Ones | Tenths | Hundredths |
|------|------|--------|------------|
|      | 0    | 8      | 5          |

Arrows indicate the shift: from Tens to Hundredths ( $\div 100$ ) and from Ones to Tenths ( $\div 100$ ).

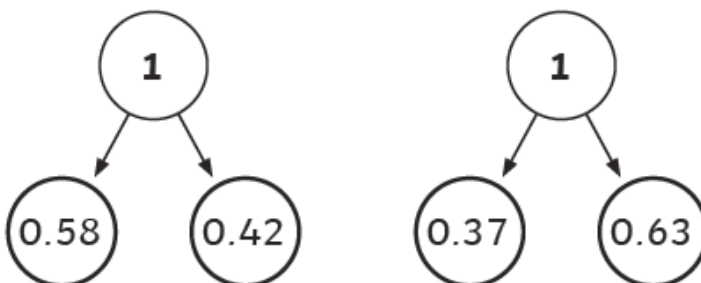
## Rounding Decimals



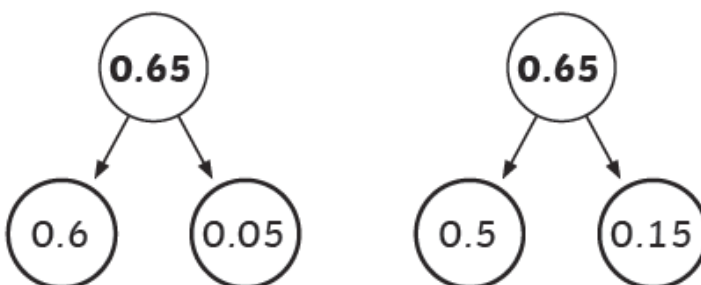
If the tenths digit is 1, 2, 3 or 4, we round **down** to the nearest whole number.

If the tenths digit is 5, 6, 7, 8 or 9, we round **up** to the nearest whole number.

## Make a Whole



## Partitioning Tenths and Hundredths



## Comparing Numbers with Two Decimal Places

| Ones | Tenths | Hundredths |
|------|--------|------------|
| 0    | 3      | 4          |

Visual representation: 0.34 is shown with 3 yellow tenths and 4 green hundredths.

| Ones | Tenths | Hundredths |
|------|--------|------------|
| 1    | 0      | 2          |

Visual representation: 1.02 is shown with 1 red one, 0 yellow tenths, and 2 green hundredths.

| Ones | Tenths | Hundredths |
|------|--------|------------|
| 2    | 1      | 3          |

Visual representation: 2.13 is shown with 2 red ones, 1 yellow tenth, and 3 green hundredths.