



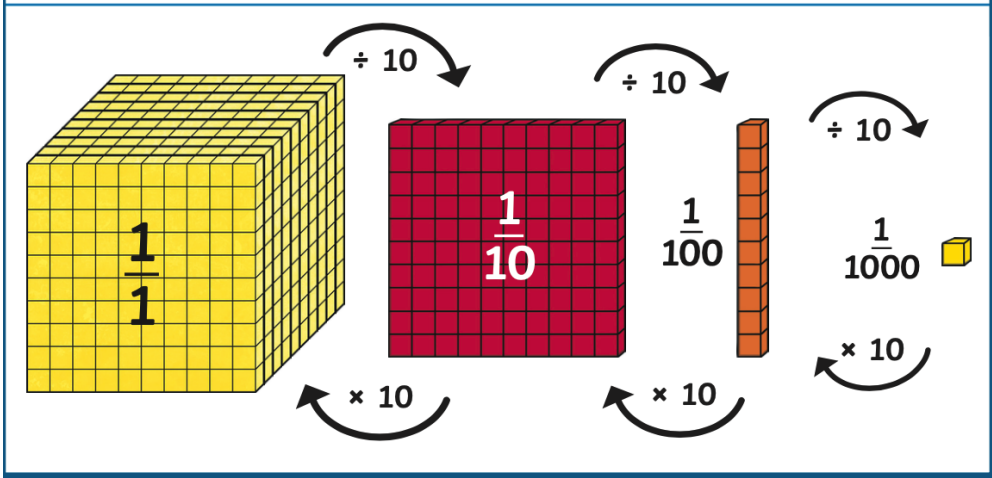
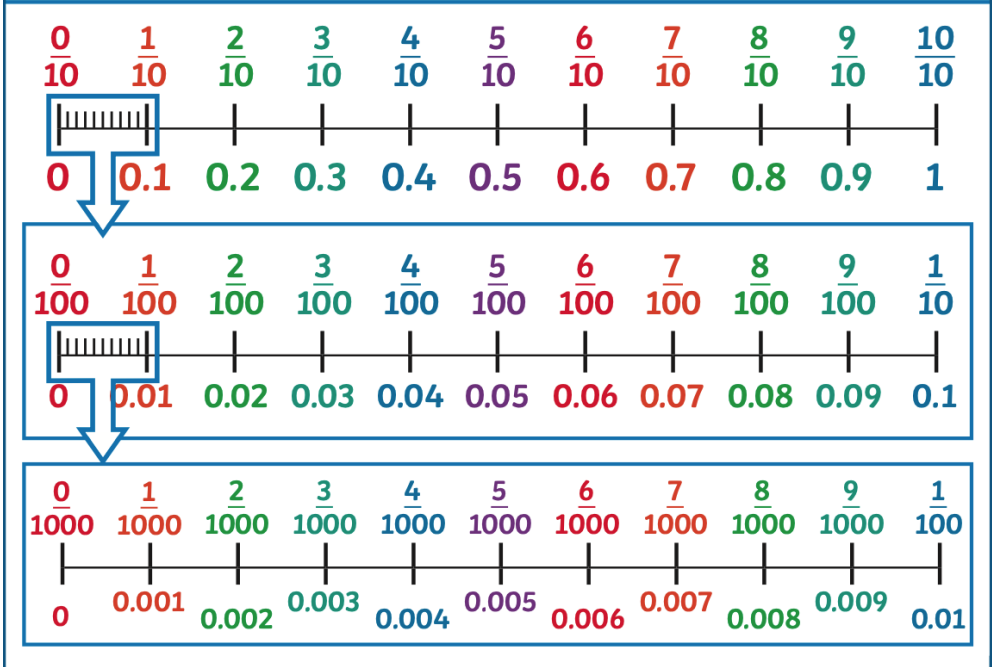
# Tenths, hundredths and thousandths

# Year Five Decimals



## Vocabulary

tenths
hundredths
decimal tenths
decimal hundredths
decimal equivalents
part-whole model
rounding
decimal point
place value



## Compare and order decimals

Ones	Tenths	Hundredths	Thousandths
	$\frac{1}{10}$ $\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{1000}$
0	.	2	1 3

Ones	Tenths	Hundredths	Thousandths
1		$\frac{1}{100}$ $\frac{1}{100}$	$\frac{1}{1000}$ $\frac{1}{1000}$
1	.	0	2 2

Ones	Tenths	Hundredths	Thousandths
1 1	$\frac{1}{10}$		$\frac{1}{1000}$ $\frac{1}{1000}$
2	.	1	0 3

## Decimals as fractions

$0.71 = \frac{71}{100} = \frac{7}{10} + \frac{1}{100}$   
 $0.37 = \frac{37}{100} = \frac{3}{10} + \frac{7}{100}$



### Multiplying and dividing by 10, 100 and 1000

Tens	Ones	Tenths	Hundredths	Thousandths
3	8			
$\div 10$		3	8	
3	8			
$\times 10$				

Tens	Ones	Tenths	Hundredths	Thousandths
3	8			
$\div 100$				
	0	3	8	
3	8			
$\times 100$				

Tens	Ones	Tenths	Hundredths	Thousandths
3	8			
$\div 1000$				
	0	0	3	8
3	8			
$\times 1000$				

### Adding and subtracting decimals

$0.8 + 0.001 = 0.801$
$1.031 - 0.23 = 0.801$
$0.4005 + 0.4005 = 0.801$

### Rounding decimals

**1** ← 1.1 1.2 1.3 1.4 | 1.5 1.6 1.7 1.8 1.9 → **2**

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.

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**1.1** ← 1.11 1.12 1.13 1.14 | 1.15 1.16 1.17 1.18 1.19 → **1.2**

If the hundredths digit is 1, 2, 3 or 4, we round down to the nearest tenth.

If the hundredths digit is 5, 6, 7, 8 or 9, we round up to the nearest tenth.

### Crossing the whole

$0.82 + 0.63 = 1.45$
$2.531 - 0.6 = 1.931$

### Percentage and decimal equivalence

