

Decimals

Knowledge Organiser

Key Vocabulary

tenths

hundredths

decimal tenths

decimal hundredths

decimal equivalents

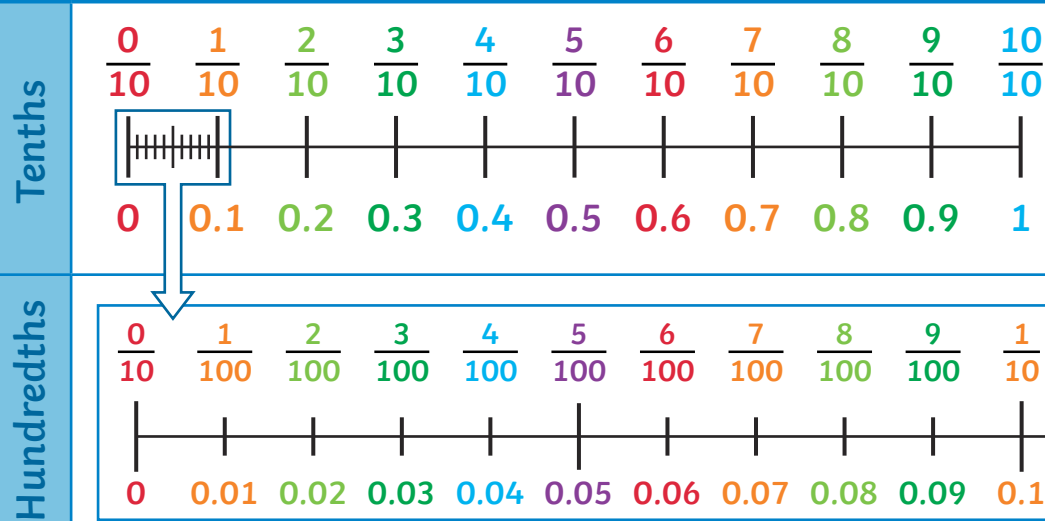
part-whole model

rounding

decimal point

place value

Tenths and Hundredths



Fraction and Decimal Equivalents

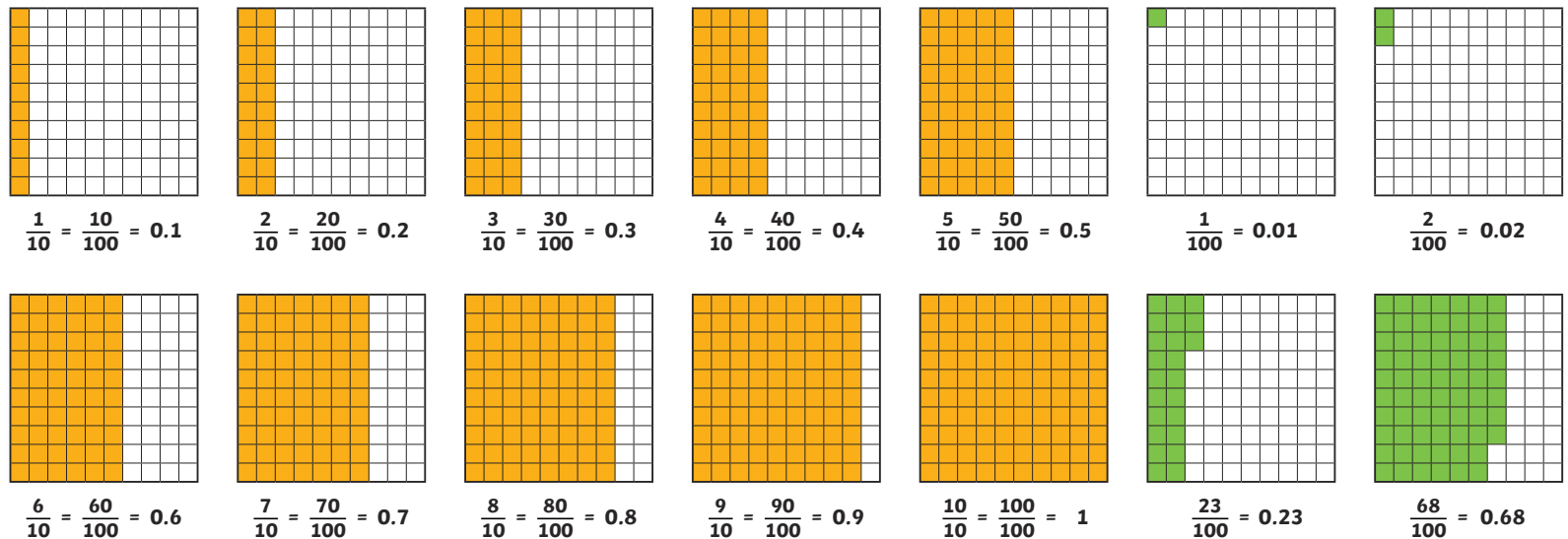
= $\frac{1}{2}$ = 0.5

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

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

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

Tenth and Hundredth Decimal Equivalents



Dividing by 10

Tens	Ones	$\div 10$
8	5	

$\div 10$		
Tens	Ones	Tenths
	8	5
		$\div 10$

Dividing by 100

Tens	Ones	$\div 100$
8	5	

$\div 100$			
Tens	Ones	Tenths	Hundredths
	0	8	5
		$\div 100$	

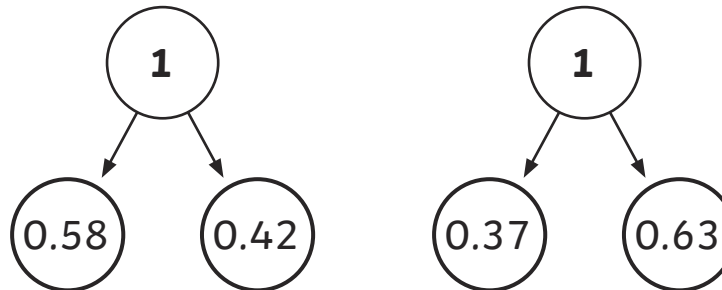
Rounding Decimals



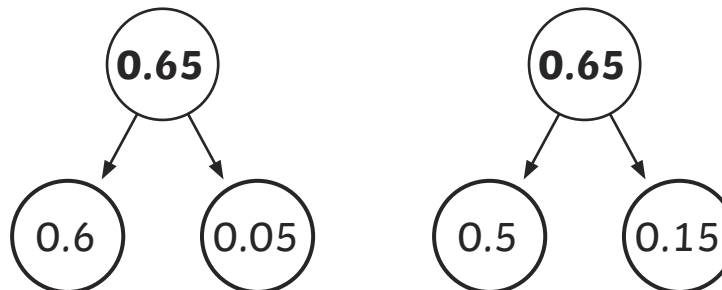
If the tenths digit is **1, 2, 3 or 4**, we round **down** to the nearest whole number.

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

0 . 3 4

Ones	Tenths	Hundredths
1	0	2

1 . 0 2

Ones	Tenths	Hundredths
2	1	3

2 . 1 3