

Decimals

Knowledge Organiser

Key Vocabulary

tenths

hundredths

decimal tenths

decimal hundredths

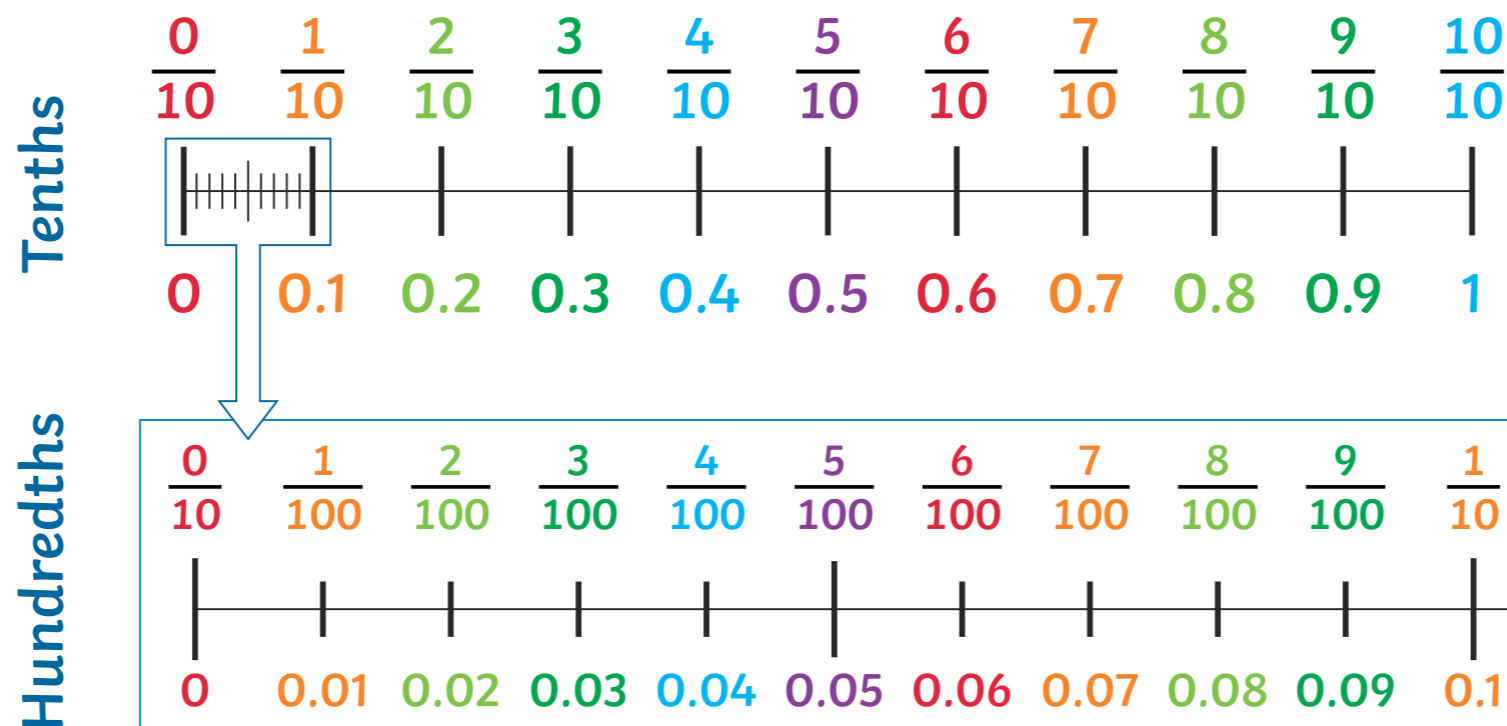
decimal equivalents

part-whole model

rounding

decimal point

place value



Fraction and Decimal Equivalents

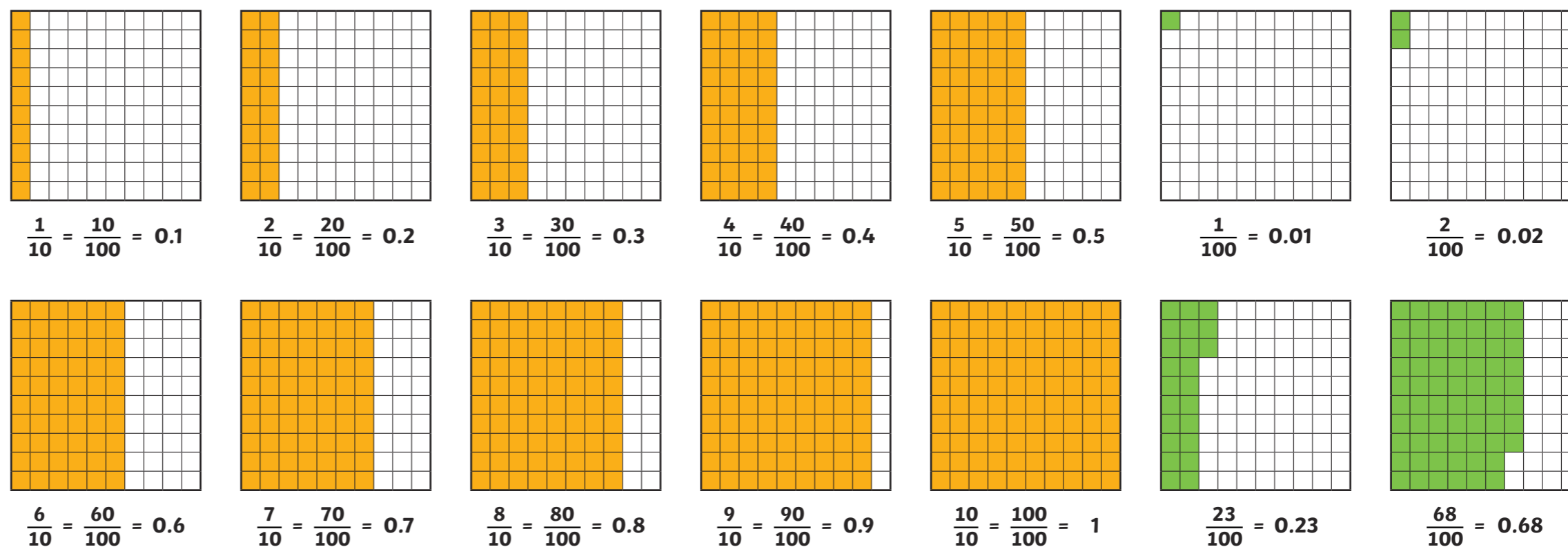
= $\frac{1}{2}$ = 0.5

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

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

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

Tenth and Hundredth Decimal Equivalents



Dividing by 10

Tens	Ones
8	5

 $\div 10$

Tens	Ones	Tenths
	8	5

Arrows indicate the shift of digits: 8 from Ones to Tenths, and 5 from Tenths to Hundredths (implied).

Dividing by 100

Tens	Ones
8	5

 $\div 100$

Tens	Ones	Tenths	Hundredths
	0	8	5

Arrows indicate the shift of digits: 8 from Ones to Tenths, and 5 from Tenths to Hundredths.

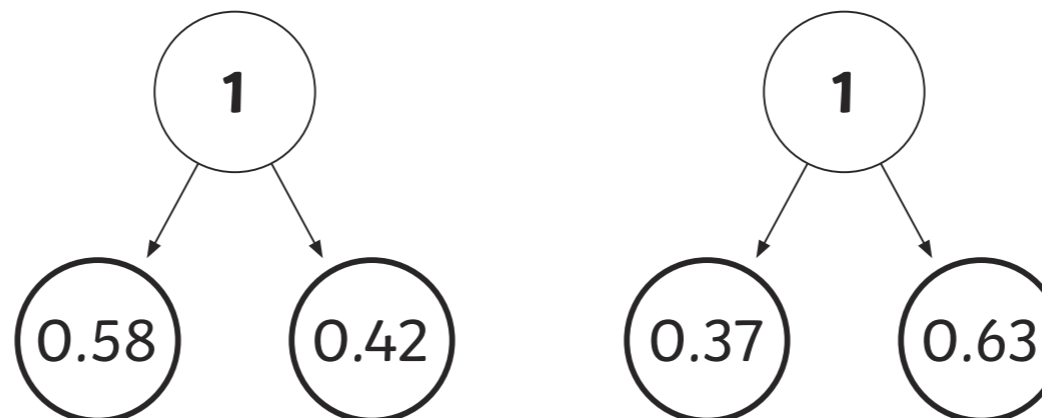
Rounding Decimals



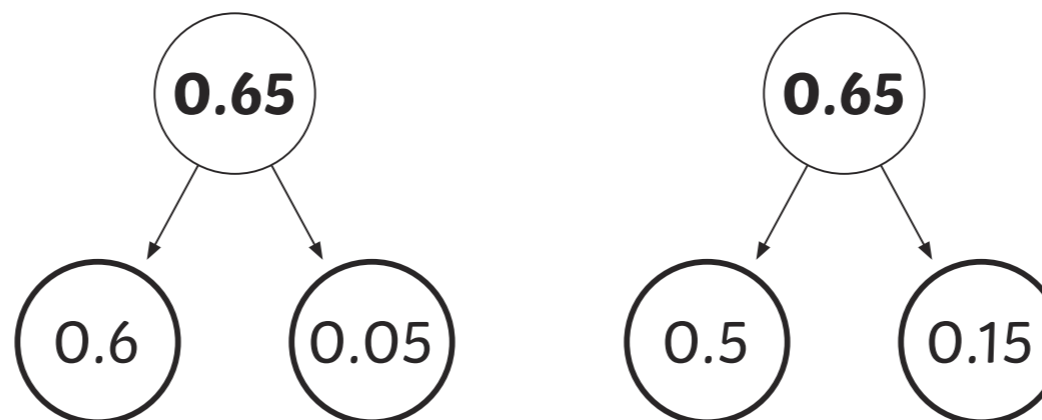
If the tenths digit is **1, 2, 3 or 4**, we round **down** to the nearest whole number.

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

