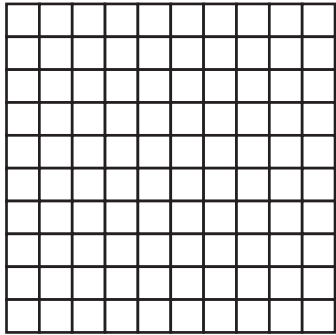


# Decimals Knowledge Organiser

Maths

## Tenths and hundredths on a hundred square

One Whole



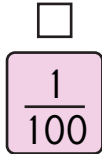
1

Tenths

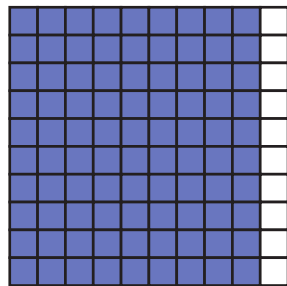


$\frac{1}{10}$

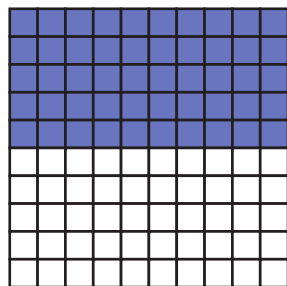
Hundredths



$\frac{1}{100}$

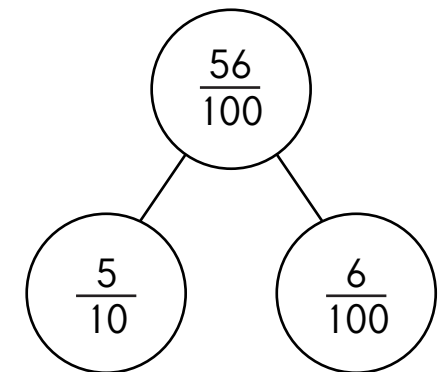
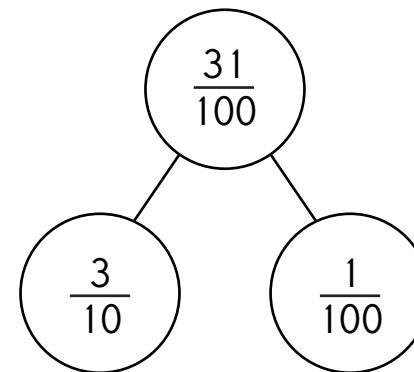
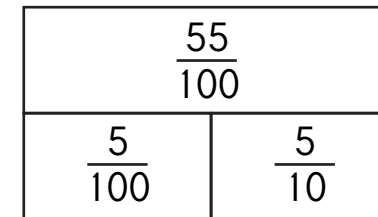
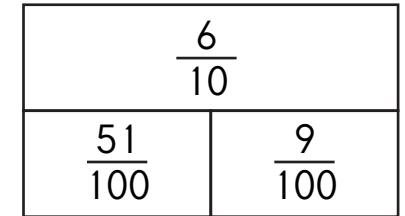
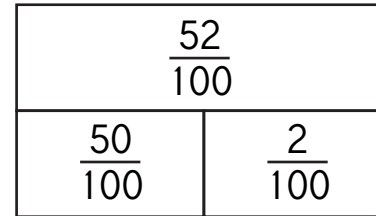


$$= \frac{90}{100} = \frac{9}{10}$$



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

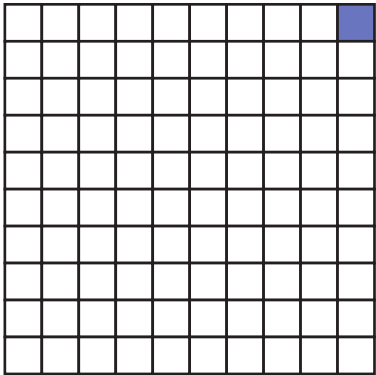
## Part - whole models



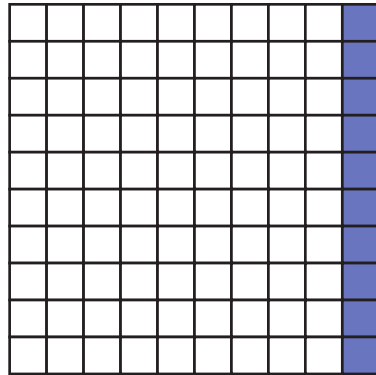
# Decimals Knowledge Organiser

Maths

## Tenths and hundredths as decimals



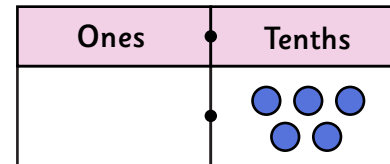
0.01



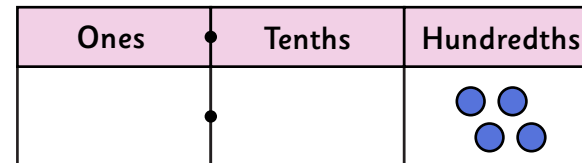
0.1

Pictorial	Words	Fraction	Decimal
	three tenths	$\frac{3}{10}$	0.3
	3 tenths and 5 hundredths	$\frac{35}{100}$	0.35

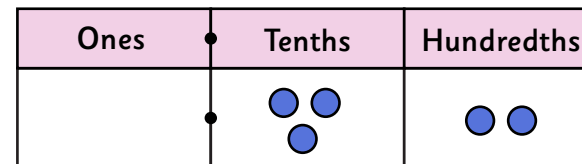
## Tenths and hundredths on a place value grid



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

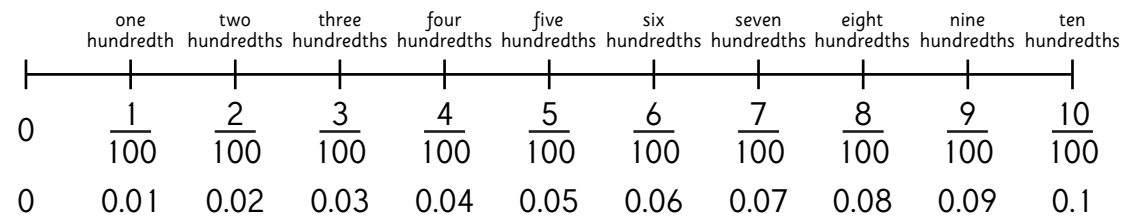
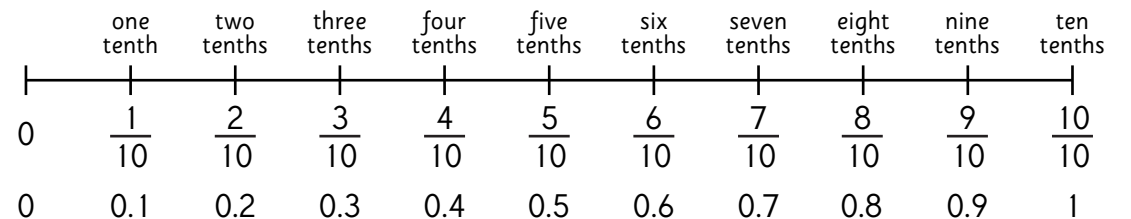


$$\frac{4}{100} = 0.04$$



$$\frac{3}{10} \text{ and } \frac{2}{100} = \frac{32}{100} = 0.32$$

## Tenths and hundredths on a number line



7.0329

# Decimals Knowledge Organiser

Maths

## Divide by 10

Move digits 1 place to the right.

Ones	Tenths	Hundredths
● ●		

Ones	Tenths	Hundredths
	● ●	

$$2 \div 10 = 0.2$$

Tens	Ones	Tenths
7	5	
	7	5

$$75 \div 10 = 7.5$$

## Divide by 100

Move digits 2 places to the right.

Tens	Ones	Tenths	Hundredths
●	● ●		

Tens	Ones	Tenths	Hundredths
		●	● ●

$$12 \div 100 = 0.12$$

Tens	Ones	Tenths	Hundredths
3	4	0	0
	0	3	4

$$34 \div 100 = 0.34$$