

Year 6 Block 8 Unit: Decimals

Key Vocabulary:

tenths	hundredths	thousandths	place value	integer	decimal
value	column	round			

What will I know by the end of this unit?

Place value - integers and decimals:

There are 2 tens, 4 ones, 4 tenths, 3 hundredths and 1 thousandth.
The number is 24.431

Round decimals:

Round the numbers to the nearest hundredth, tenth and integer.

10.185
Rounded to the nearest integer: 10
When rounding to the nearest integer you look at the digit in the tenths column.

10.185
Rounded to the nearest tenth: 10.2
When rounding to the nearest tenth you look at the digit in the hundredths column.

Subtract decimals:

$6.73 - 1.3 = 5.43$

Add decimals:

$3.108 + 2.154 = 5.262$

Multiply and divide by 10, 100 and 1,000:

Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
			2	0	8	
		$\times 10$	20	0	8	
			2	0	8	
				$\div 10$	0	8
			2	0	8	

Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
		4	3	5		
	$\times 100$	400	300	500		
4	3	5	0			
			$\div 100$			
		4	3	5		

Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
			1	3	5	1
	$\times 1000$	1000	3000	5000	1000	
1	3	5	1			
			$\div 1000$			
			1	3	5	1

Divide decimals by integers:

Multiply decimals by integers:

$4.3 \times 4 = 17.2$