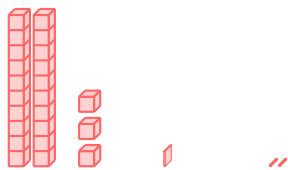# DECIMAL NUMBERS

A DEFINITION

A.1 IDENTIFYING PLACE VALUES
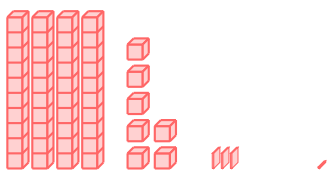
Ex 1:

The number of cubes is:

Tens	Ones	.	Tenths	Hundredths
		.		

Ex 2:

The number of cubes is

Tens	Ones	.	Tenths	Hundredths
		.		

Ex 3:

The number of cubes is

Tens	Ones	.	Tenths	Hundredths
		.		

Ex 4:
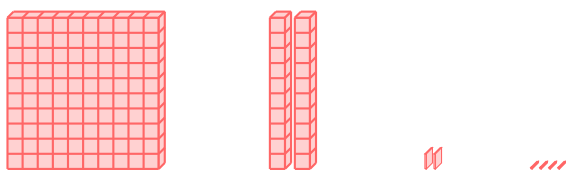
The number of cubes is

Hundreds	Tens	Ones	.	Tenths	Hundredths
			.		

Ex 5:
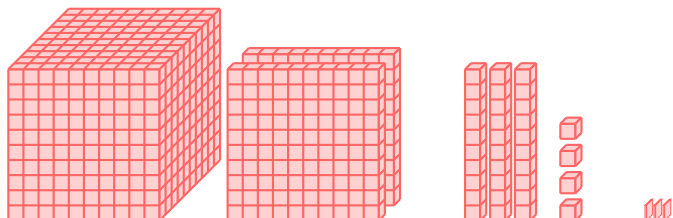
The number of cubes is

Thousands	Hundreds	Tens	Ones	.	Tenths
				.	

A.2 WRITING DECIMAL NUMBERS

Ex 6:

Tens	Ones	.	Tenths	Hundredths
2	3	.	1	2

The decimal number is [   ].

Ex 7:

Tens	Ones	.	Tenths	Hundredths
2	0	.	0	1

The decimal number is [   ].

Ex 8:

Hundreds	Tens	Ones	.	Tenths	Hundredths
1	2	0	.	9	9

The decimal number is [   ].

Ex 9:

Tens	Ones	.	Tenths	Hundredths
2	3	.	1	0

The decimal number is [   ].

Ex 10:

Hundreds	Tens	Ones	.	Tenths	Hundredths
9	1	1	.	0	1

The decimal number is [   ].

A.3 FINDING THE DIGIT IN A PLACE VALUE

Ex 11: The digit in the hundredths place of 43.21 is [   ].

Ex 12: The digit in the tens place of 900.01 is [   ].

Ex 13: The digit in the tenths place of 10.04 is [   ].

Ex 14: The digit in the hundredths place of 0.89 is [   ].

A.4 WRITING DECIMAL NUMBERS FROM FRACTIONS IN BASE 10

Ex 15: Write in decimal form:
$$\frac{3}{10} = \boxed{}$$

Ex 16: Write in decimal form:
$$\frac{3}{100} = \boxed{}$$

Ex 17: Write in decimal form:
$$\frac{5}{100} = \boxed{}$$

Ex 18: Write in decimal form:
$$\frac{8}{10} = \boxed{}$$

A.5 WRITING DECIMAL NUMBERS FROM EXPANDED FORMS

Ex 19: 4 tens + 1 one + 2 tenths + 5 hundredths =

Ex 20: 2 tens + 3 ones + 5 tenths + 1 hundredths =

Ex 21: 2 tens + 5 hundredths =

Ex 22: 1 hundredth =

A.6 WRITING DECIMAL NUMBERS FROM EXPANDED FORMS II

Ex 23:
$$2 + 4 \times \frac{1}{10} + 1 \times \frac{1}{100} = \boxed{}$$

Ex 24:
$$3 \times 10 + 1 + 2 \times \frac{1}{10} + 3 \times \frac{1}{100} = \boxed{}$$

Ex 25:
$$1 + 3 \times \frac{1}{100} = \boxed{}$$

Ex 26:
$$9 + 9 \times \frac{1}{10} + 9 \times \frac{1}{100} = \boxed{}$$

B ON THE NUMBER LINE

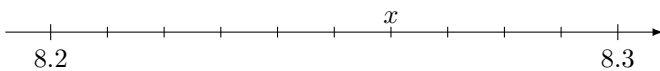## B.1 IDENTIFYING DECIMAL NUMBERS ON A NUMBER LINE

Ex 27: Find the value of x

x at 1.2 ... 1.3
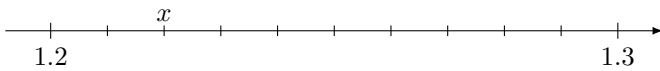
$x = \boxed{}$

Ex 28: Find the value of x

x at 12 ... 13
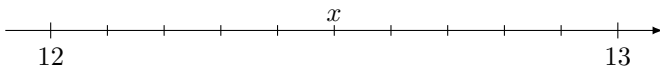
$x = \boxed{}$

Ex 29: Find the value of x

x at 8.2 ... 8.3

$x = \boxed{}$

Ex 30: Find the value of x

x at 0.8 ... 0.9
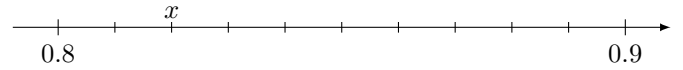
$x = \boxed{}$

Ex 31: Find the value of x

x at 12.3 ... 12.4

$x = \boxed{}$

Ex 32: Find the value of x

x at 99 ... 100

$x = \boxed{}$