

# Digits

A digit is a single number

There are 10 digits: 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9

Every other number is made from combining these digits

## 1 digit numbers

0

1

2

3

4

5

6

7

8

9

# Digits

Can you think of some  
2 digit numbers?

13  
26  
34  
57  
89

All the numbers  
from 10 to 100

Can you think of some  
3 digit numbers?

467  
312  
897  
692  
158

All the numbers  
from 100 to 1,000

Can you think of some  
4 digit numbers?

1,256  
7,893  
4,674  
9,032  
5,810

All the numbers from  
1,000 to 10,000

# Place Value

Value means what something is worth

The place of a digit decides its value

What is the value of the blue digits in each number?

1

3

7

10

36

71

100

339

768

1,000

3,672

7,295

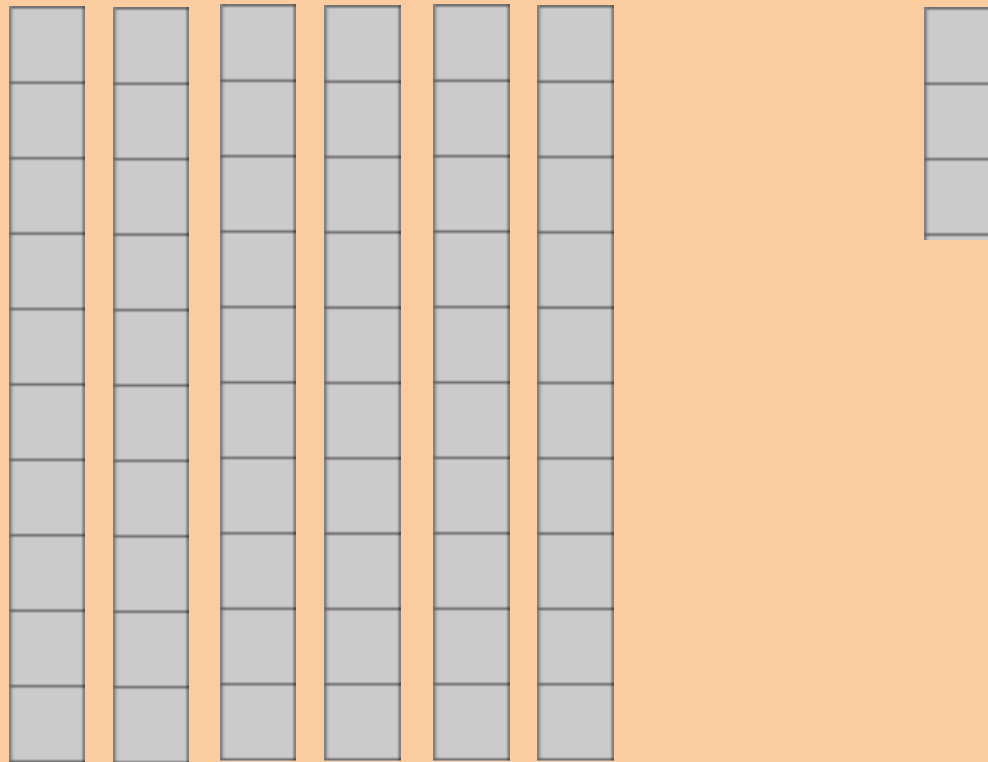
# Partitioning 2-digit numbers

63 =

60

+

3



So when we partition 2-digit numbers we we split them up in to their  
tens and units

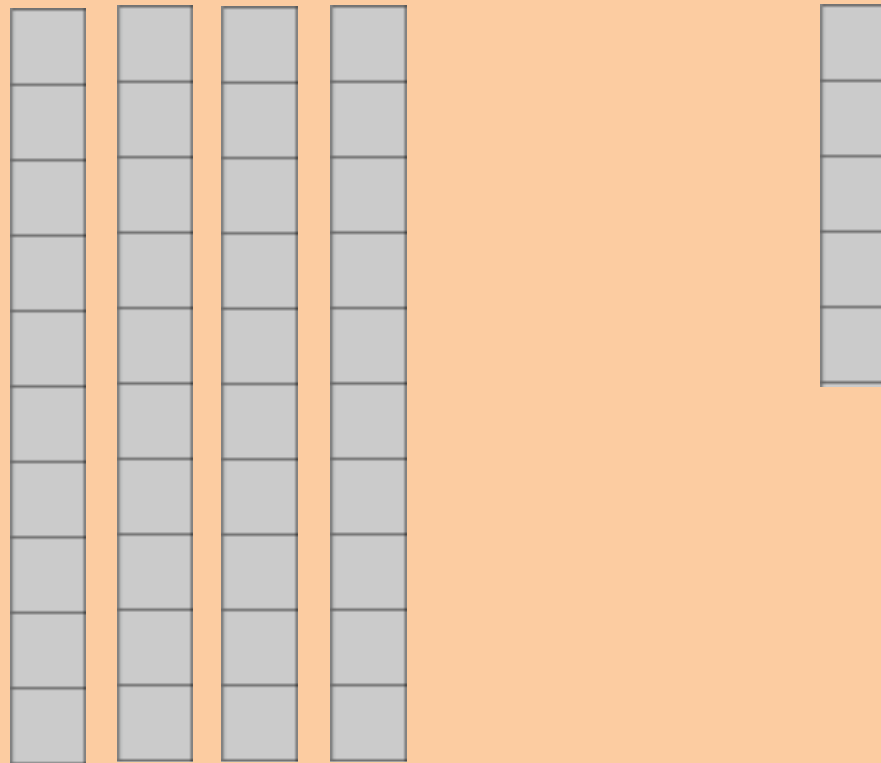
# Partitioning 2-digit numbers

45 =

40

+

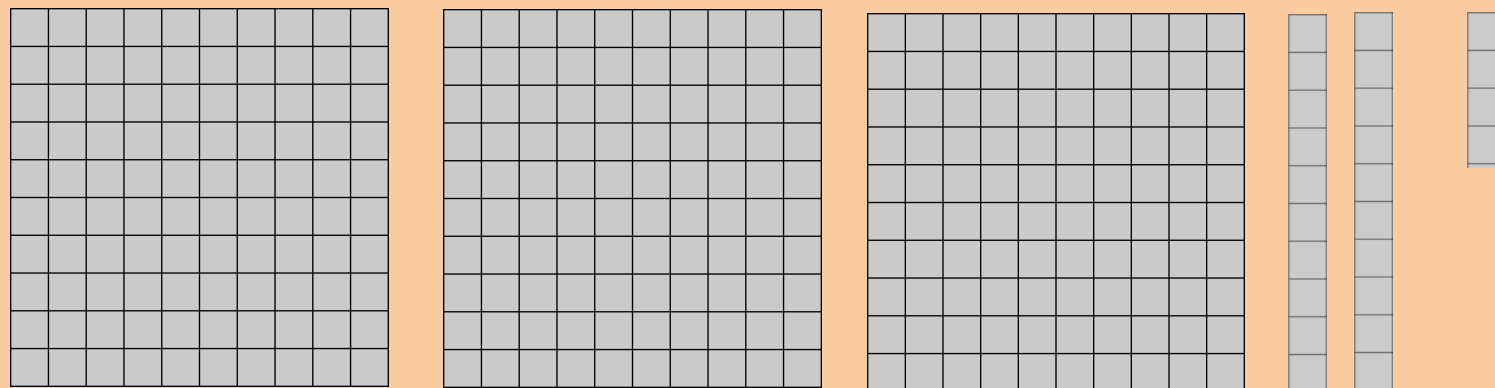
5



So when we partition 2-digit numbers we we split them up in to their  
tens and units

# Partitioning 3-digit numbers

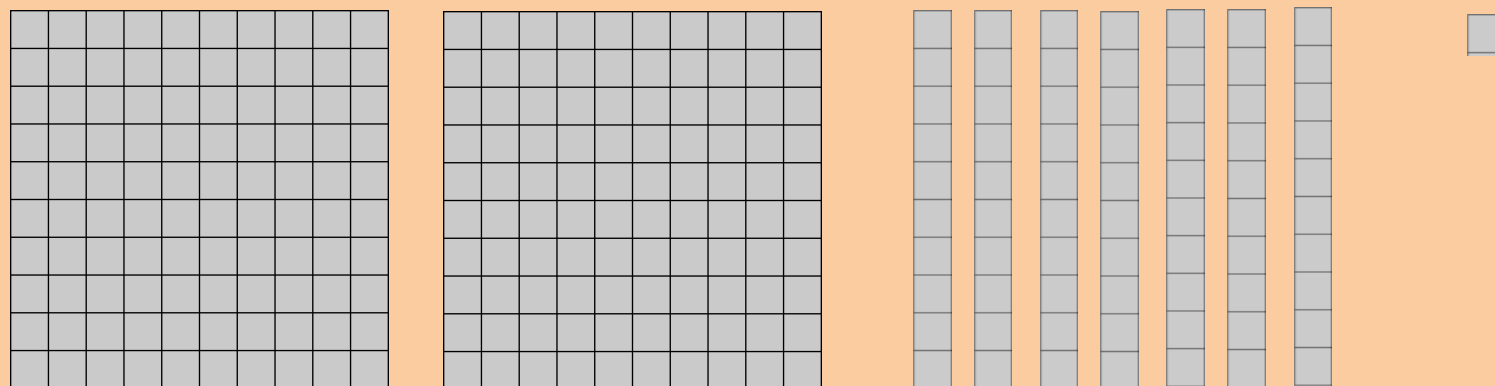
$$324 = 300 + 20 + 4$$



So when we partition 3-digit numbers we we split them up in to their hundreds, tens and units

# Partitioning 3-digit numbers

$$271 = 200 + 70 + 1$$



So when we partition 3-digit numbers we we split them up in to their hundreds, tens and units

# Partitioning 4-digit numbers

We partition 4-digit numbers in to their thousands, hundreds, ten and units

$$4,975 = 4,000 + 900 + 70 + 5$$

$$1,256 = 1,000 + 200 + 50 + 6$$

$$8,173 = 8,000 + 100 + 70 + 3$$

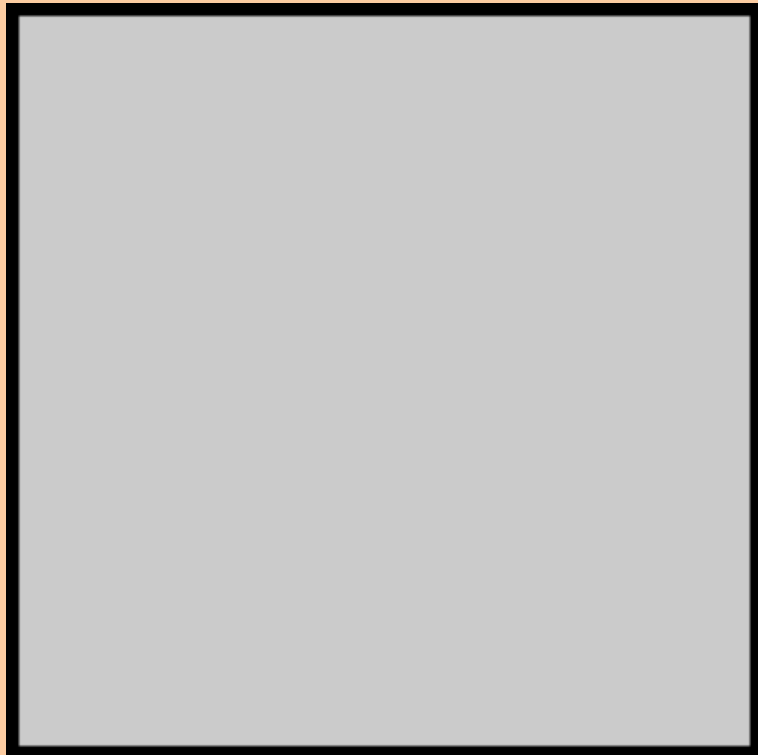


# Tenths

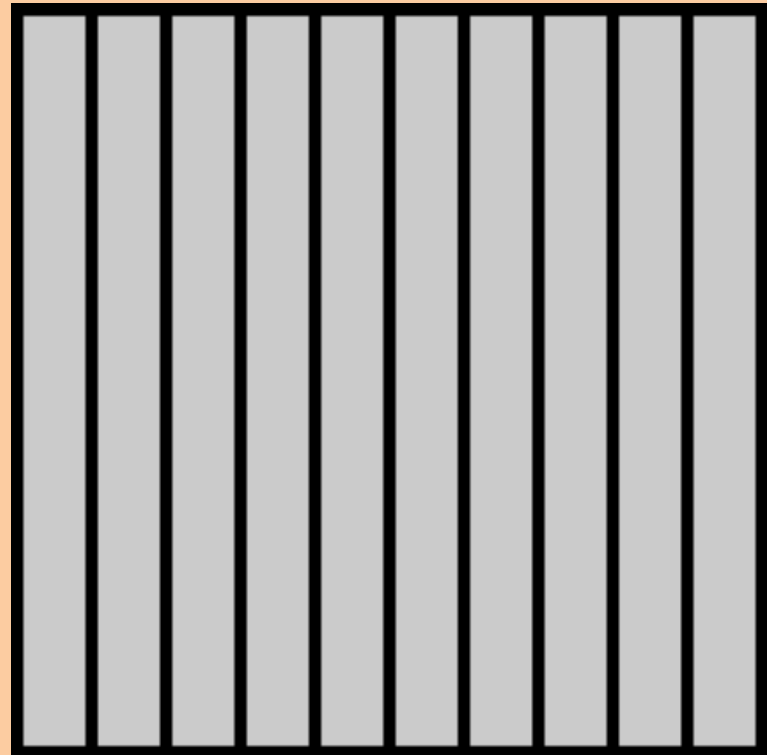
Units can be split in to tenths

10 tenths make 1 unit

Units



tenths

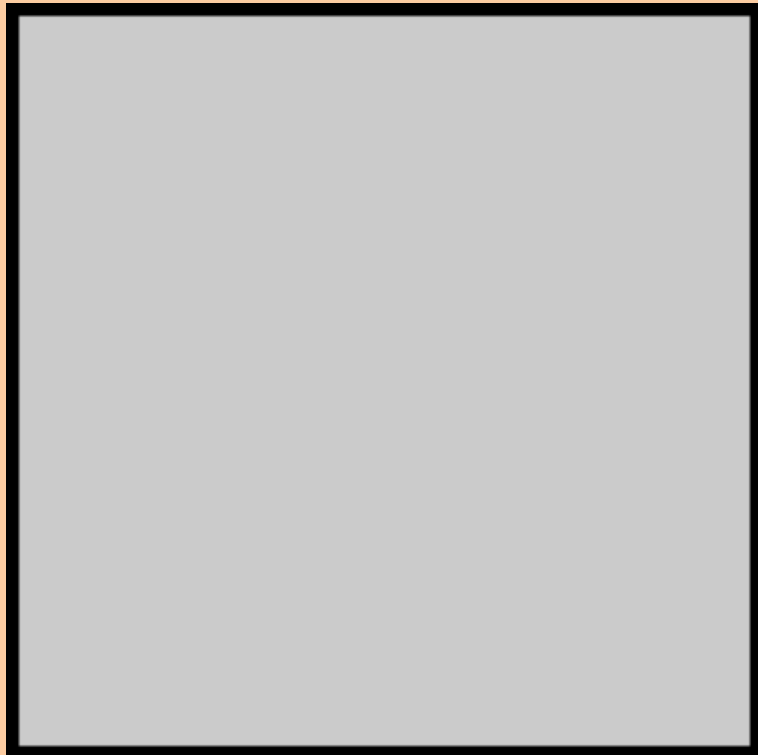


# Hundredths

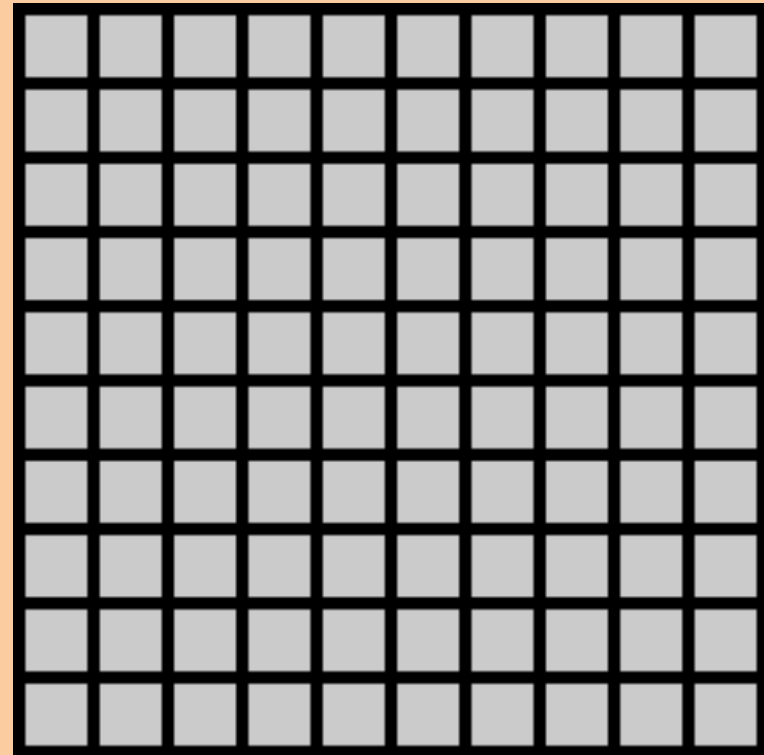
Units can also be split in to hundredths

100 hundredths make 1 unit

Units



hundredths



# Numbers with decimal places

Numbers with decimal follows the same rules

The further to the left a number is, the more it is worth

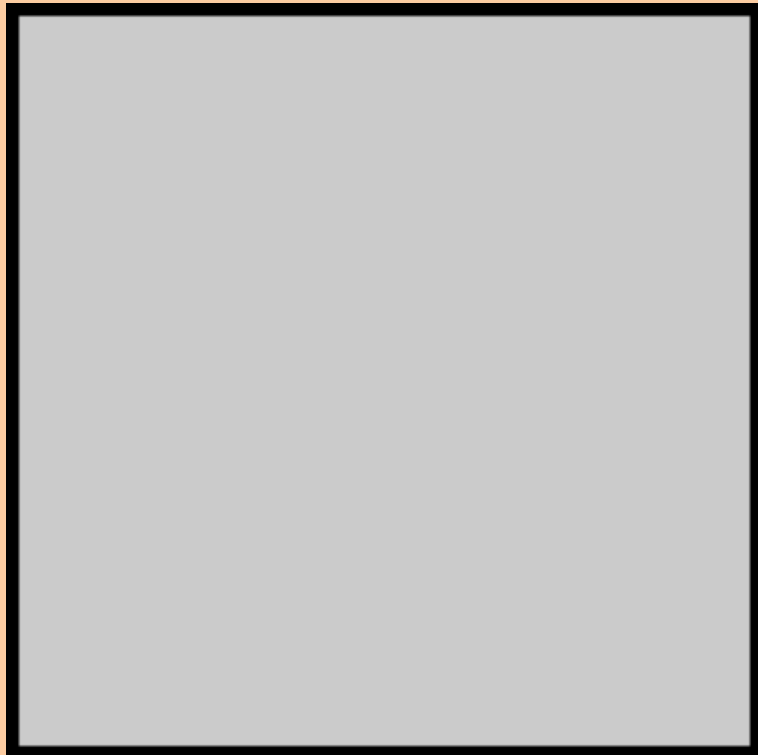
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t

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th



# Place Value

Value means what something is worth

The place of a digit decides its value

What is the value of the blue digits in each number?

1

3

7

0.1

0.3

0.7

0.01

0.03

0.07

0.001

0.003

0.007

# Zeros after the last digit

In numbers with decimal places, zeros after the last number do not change the value of the number

The numbers in the same colours below have the same value as each other, despite the extra zeros on the end

8

8.0

2

2.00

5.1

5.10

7.35

7.350000

# Partitioning numbers with decimal places

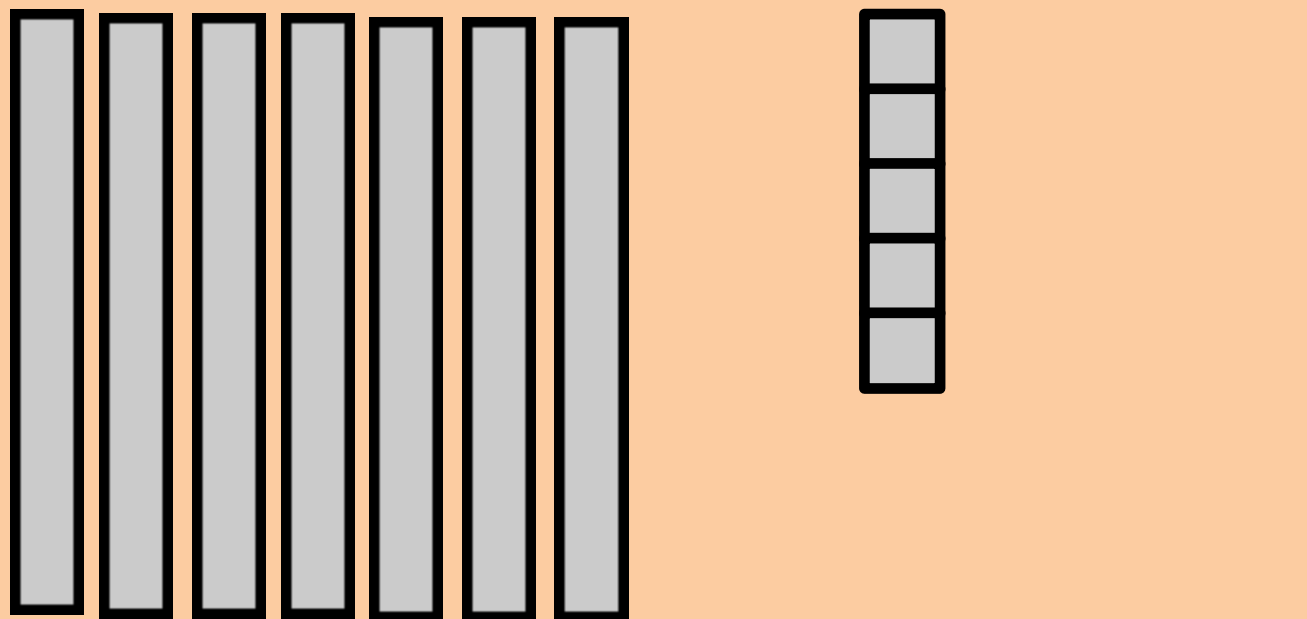
$$2.3 = 2 + 0.3$$



So when we partition numbers with decimal places we we split them up in to their units, tenths, hundredths and thousandths

# Partitioning numbers with decimal places

$$0.752 = 0.7 + 0.05 + 0.002$$



So when we partition numbers with decimal places we split them up in to their units, tenths, hundredths and thousandths

# Partitioning numbers with decimal places

When we partition numbers with decimal places we split them up in to their units, tenths, hundredths and thousandths

$$4.975 = 4 + 0.9 + 0.07 + 0.005$$

$$1.256 = 1 + 0.2 + 0.05 + 0.006$$

$$8.173 = 8 + 0.1 + 0.07 + 0.003$$