

09:30 – 10:30

Mathematics: Year 5 Subtracting Decimals within 1

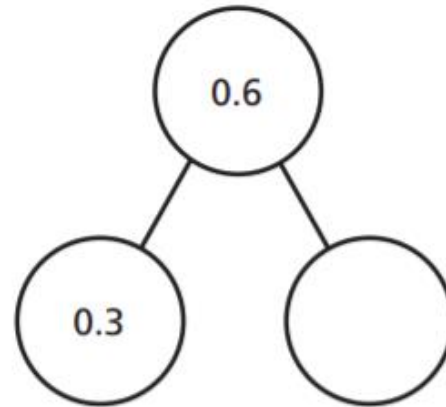
Monday 25th January 2021
25/01/2021



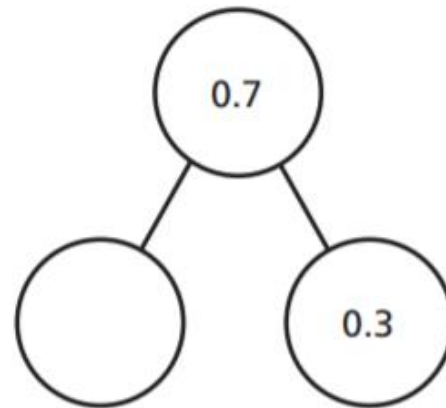
Let's get warmed up!

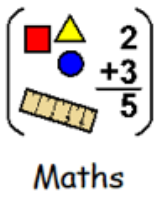
Complete the part-whole models.

a)



b)

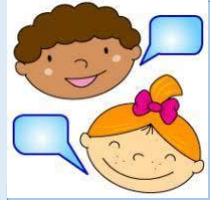




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Mathematics: Year 5 Subtracting Decimals within 1

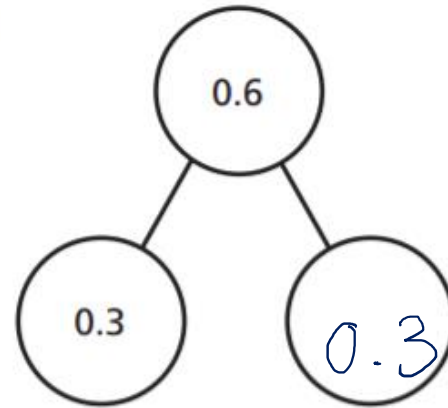
Monday 25th January 2021
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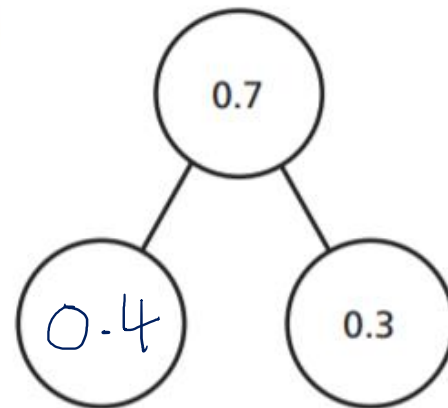
Let's get warmed up! Answers

Complete the part-whole models.

a)

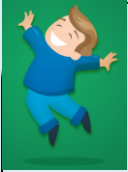


b)



Subtracting Decimals within 1

LO: I can subtract decimals using a variety of methods.



How will you know that you have been successful?
What am I looking for?

You will be able to identify the value of each digit in a decimal number up to 3 decimal places

You will be able to use place value counters on a place value grid to subtract decimals

You will be able to use your knowledge of exchange to subtract decimals efficiently

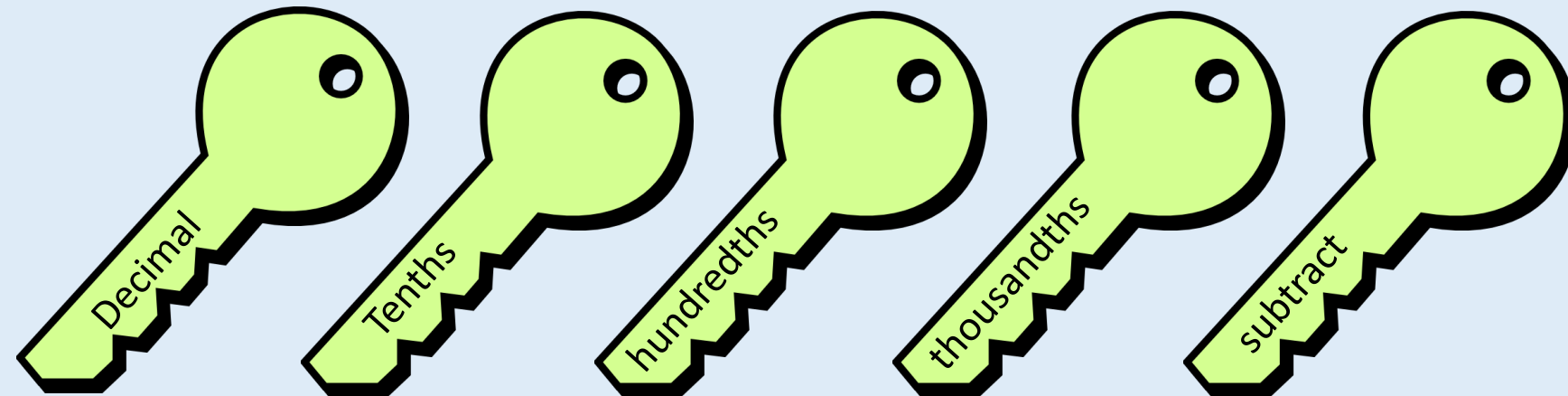
Stem sentence

There are _____ hundredths.

_____ tenths/hundredths are

subtracted.

_____ subtract _____ equals _____



$3 + 2 = 5$

Concrete Pictorial Abstract

Activating Prior Learning

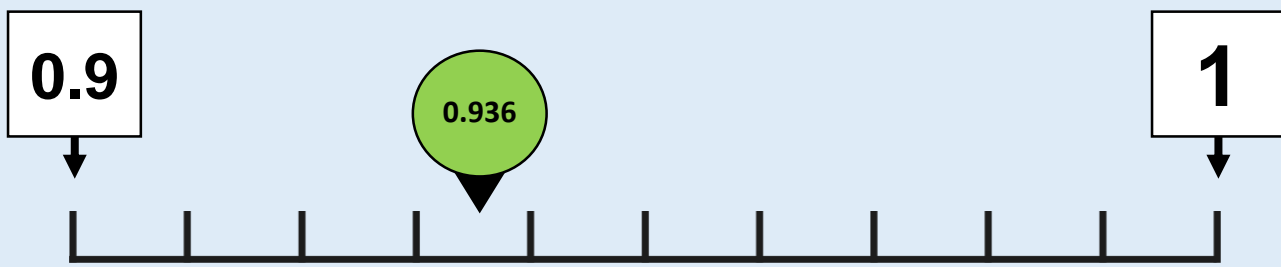
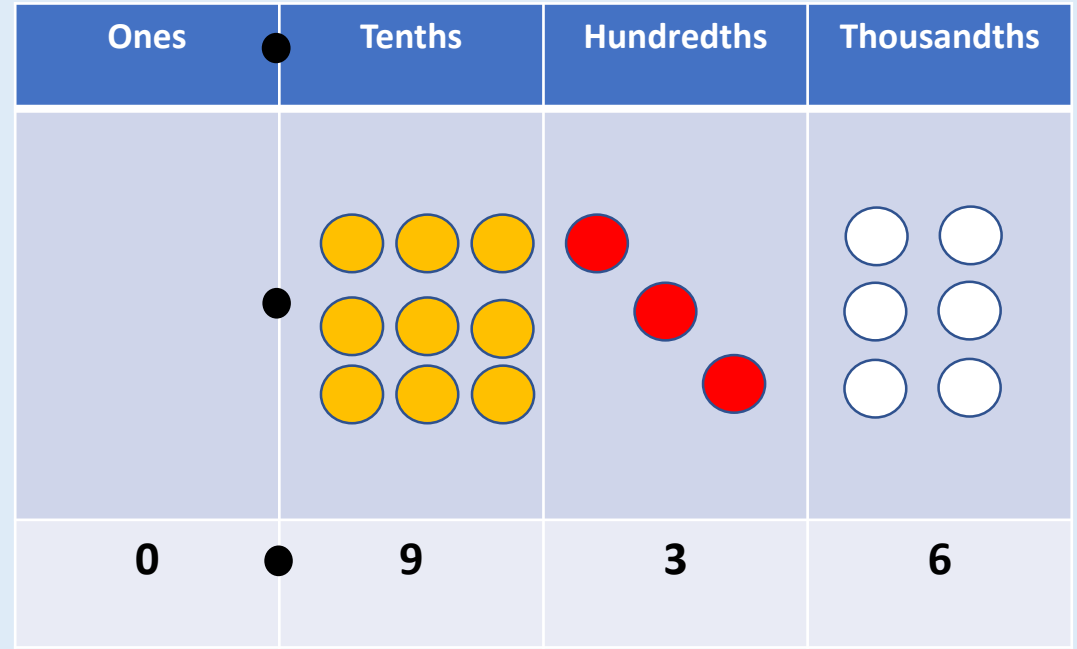
We can be flexible with our knowledge of place value.

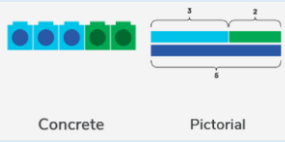
ones	tenths	hundredths	thousandths
0	9	3	6

$0.936 = 9$ tenths, 3 hundredths and 6 thousandths

0.936 also = 93 hundredths and 6 thousandths

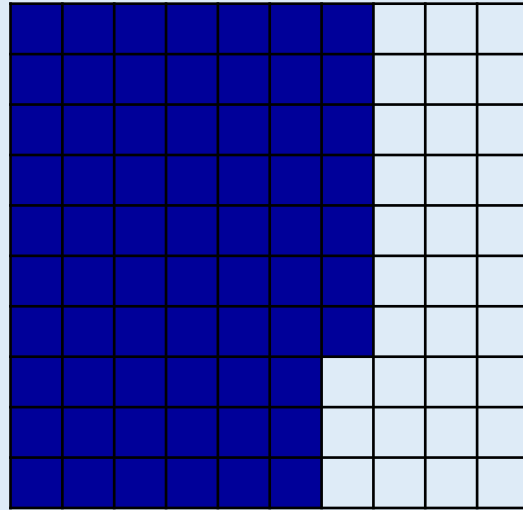
0.936 also = 936 thousandths





Activating Prior Knowledge:

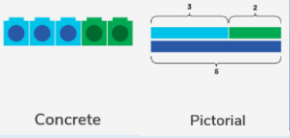
Ones	Tenths	Hundredths
0	6	7



What number is represented here?

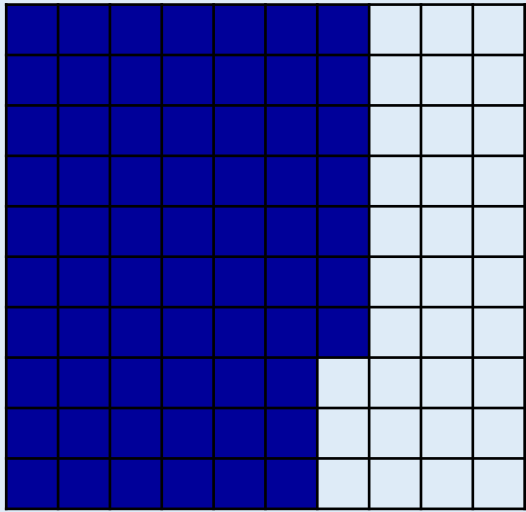
There are 6 tenths and 7 hundredths.
There are 67 hundredths





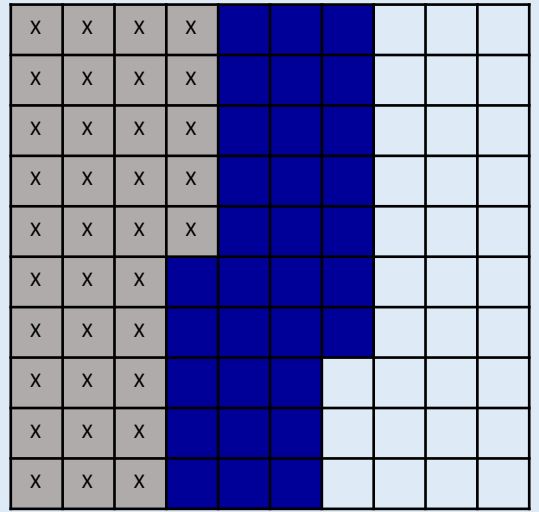
New Learning:

We are going to subtract 35 hundredths, or 0.35.



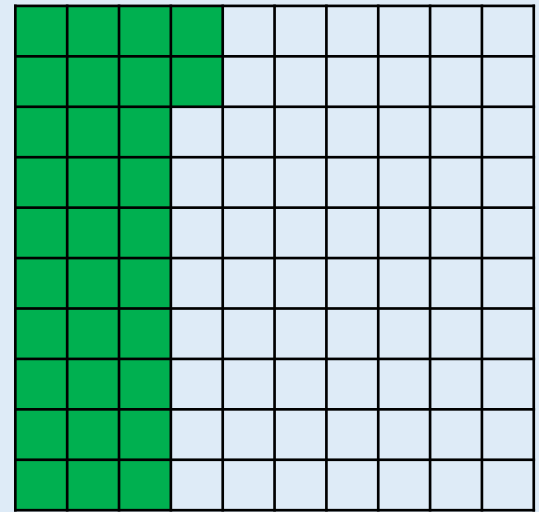
0.67

—



0.35

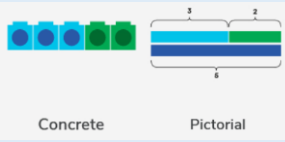
=



0.32

$$\begin{array}{r}
 0.67 \\
 - 0.35 \\
 \hline
 0.32
 \end{array}$$





New Learning:

We are going to subtract 35 hundredths, or 0.35.

$$3 + 2 = 5$$

Abstract

Ones	Tenths	Hundredths
0	6	7
0	3	2

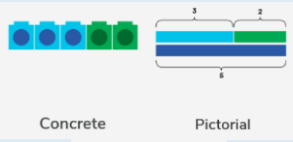
	0	tth	hth
	0	6	7
-	0	3	5
	0	3	2

Stem sentence

There are 67 hundredths. 35 hundredths are subtracted.

0.67 subtract 0.35 equals 0.32



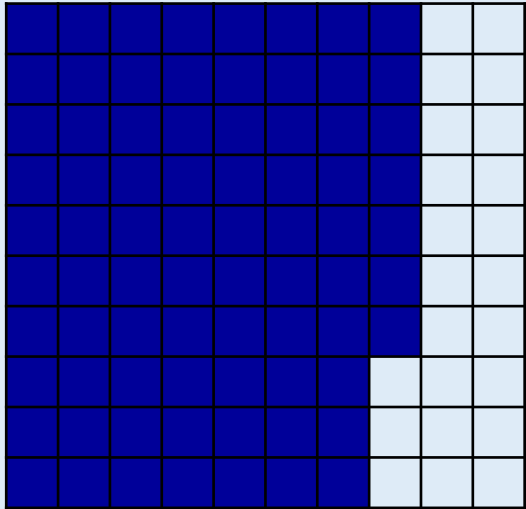


New Learning:

What calculation is represented here? Can you use the stem sentence to describe the calculation that is represented?

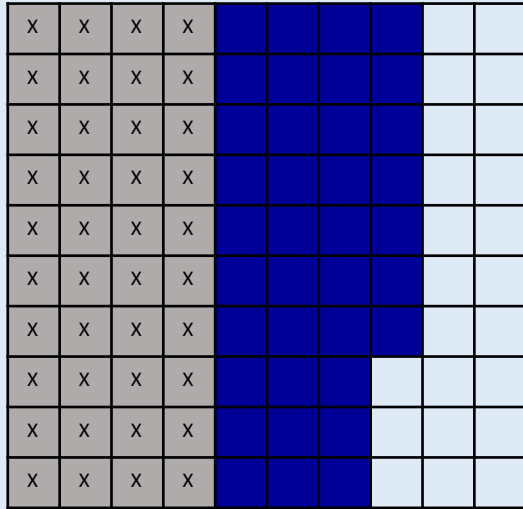
$3 + 2 = 5$

Abstract



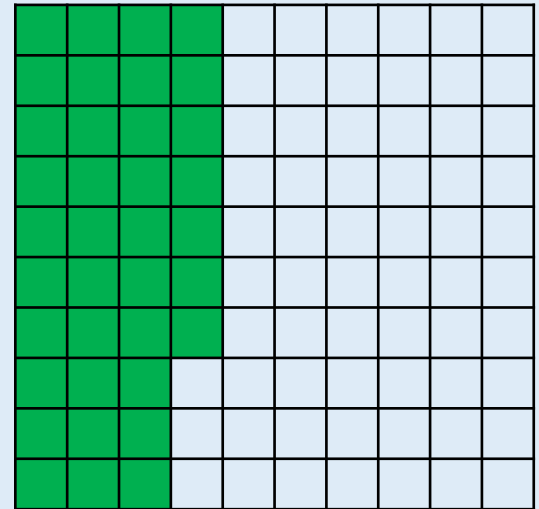
0.77

—



0.4

=



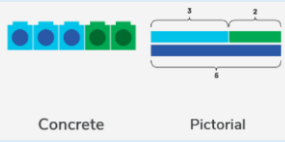
0.37

$$\begin{array}{r} 0.77 \\ - 0.40 \\ \hline 0.37 \end{array}$$

There are 77 hundredths. 4 tenths are subtracted.

0.77 subtract 0.4 equals 0.37





New Learning:

We are going to subtract 4 tenths, or 0.4.

$$3 + 2 = 5$$

Abstract

Ones	Tenths	Hundredths
0	7	7
0	3	7

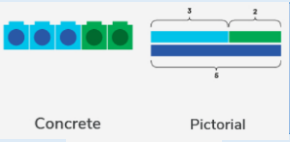
	0	tth	hth
	0	7	7
-	0	4	0
	0	3	7

Stem sentence

There are 77 hundredths. 4 tenths are subtracted.

0.77 subtract 0.4 equals 0.37



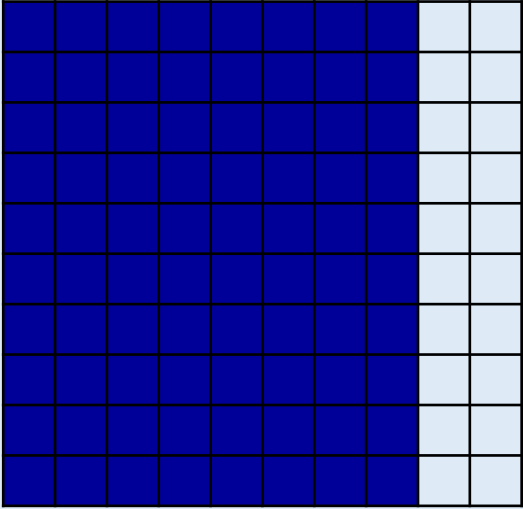


Practice:

What calculation is represented here? Can you use the stem sentence to describe the calculation that is represented?

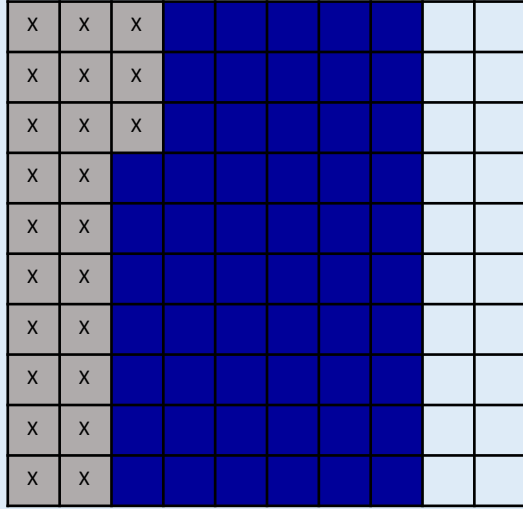
$3 + 2 = 5$

Abstract



0.8

-

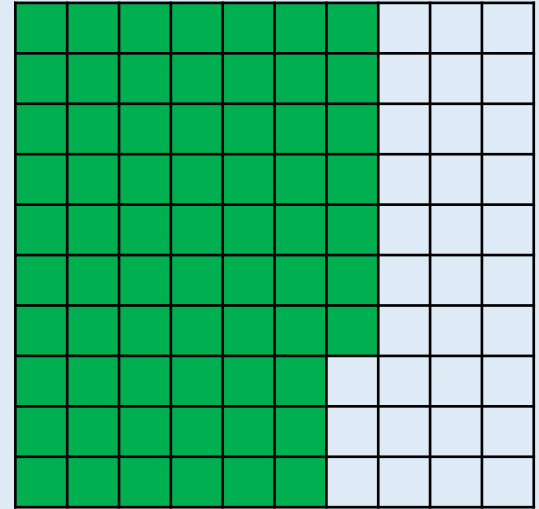


0.23

=

=

=

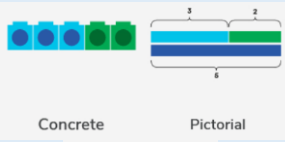


0.67

There are 80 hundredths. 23 hundredths are subtracted.

0.8 subtract 0.23 equals 0.67





New Learning:

$$3 + 2 = 5$$

Abstract

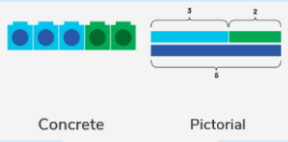
We can also use a place value chart to complete this calculation.
 Model the number 0.8. We are going to subtract 0.23.
 What do you think we need to do?

Ones	Tenths	Hundredths
	0 0	
	0 0	
	0 0	
	0 0	
0	8	0

— 0.23

— 0.23





New Learning:

$$3 + 2 = 5$$

Abstract

We can also use a place value chart to complete this calculation.
 Model the number 0.8. We are going to subtract 0.23.
 What do you think we need to do?

Ones	Tenths	Hundredths
0	8	0
0	2	3

Ones	Tenths	Hundredths
0	7	10
0	2	3
0	5	7

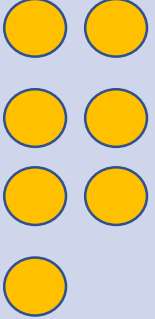
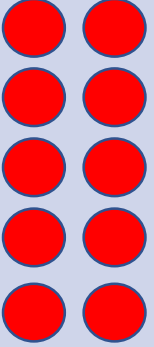


$3 + 2 = 5$

Abstract

New Learning:

We can record this as a calculation using the column method:

Ones	•	Tenths	Hundredths
			
0	•	78	10
0	.	2	3

	0	•	tth	hth
	0	•	78	10
-	0	•	2	3
	0	•	5	7





Independent Learning:

Complete the rest of the questions for this lesson.

Section 1 - No exchange

For each question, record your working pictorially, use the stem sentence and then write the column addition.

1 $0.77 - 0.24 =$

2 $0.58 - 0.4 =$

3 $0.98 - 0.24 =$

4 $0.64 - 0.34 =$

5 $0.48 - 0.2 =$

Section 2

For each question, record your working pictorially, use the stem sentence and then write the column addition.

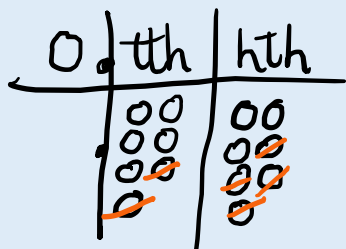
1 $0.52 - 0.37 =$

2 $0.9 - 0.52 =$

3 $0.43 - 0.28 =$

4 $0.8 - 0.39 =$

5 $0.71 - 0.08 =$



Example of recording (Section 1, Question 1)

There are 77 hundredths.
24 hundredths are subtracted.
 $0.77 - 0.24 = 0.53$

