



Key Instant Recall Facts

Year 6 – Spring 1

I can convert between decimals, fractions and percentages.

$$\frac{1}{2} = 0.5$$

$$\frac{1}{4} = 0.25$$

$$\frac{3}{4} = 0.75$$

$$\frac{1}{10} = 0.1$$

$$\frac{1}{5} = 0.2$$

$$\frac{3}{5} = 0.6$$

$$\frac{9}{10} = 0.9$$

$$\frac{1}{100} = 0.01$$

$$\frac{7}{100} = 0.07$$

$$\frac{21}{100} = 0.21$$

$$\frac{75}{100} = 0.75$$

$$\frac{99}{100} = 0.99$$

Key Vocabulary

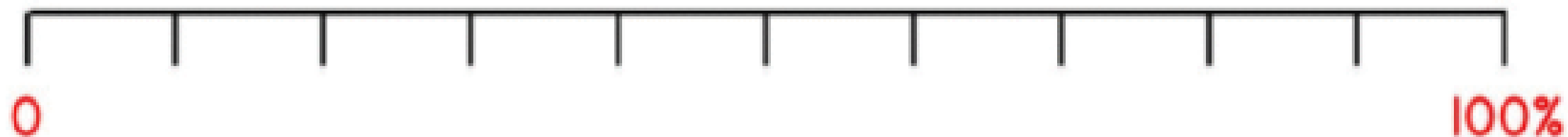
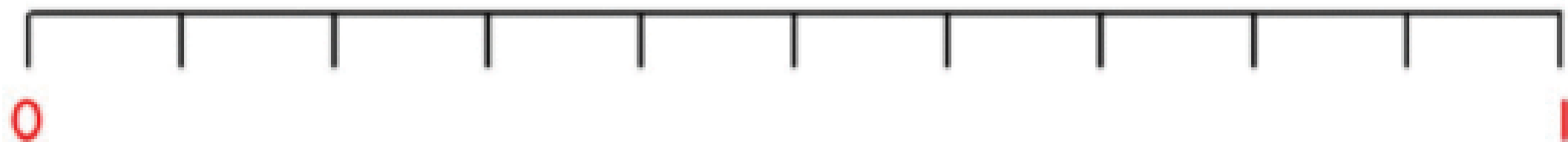
How many **tenths** is 0.8?

How many **hundredths** is 0.12?

Write 0.75 as a **fraction**?

Write $\frac{1}{4}$ as a **decimal**?

DECIMAL FRACTION PERCENT NUMBER LINES 0 TO 1



RECALL

Write these numbers in order, starting with the **smallest**.

0.78

0.607

5.6

0.098

4.003

What could these numbers mean?

Can you give them a context?

L.O. -TO READ, WRITE, ORDER AND COMPARE NUMBERS
THAT HAVE A MIXTURE OF 1, 2 OR 3 DECIMAL PLACES

- **Some will even** be able to show multiple ways to partition a number
- **Some will** be able to partition their numbers
- **Most will** be able to explain the value of any digit in a number with up to 3 decimal places
- **All will** be able to use a place value chart

GUIDED PRACTICE - MY TURN



○	Tth	Hth	Thth
●			

Use or draw ten counters: how many different numbers can you make?

What's the largest number you can make?

What's the smallest number you can make?

help

Physically use the counters – remember nine is your max in each column before EXCHANGE!



Can you find multiple ways to show the same number?

GUIDED PRACTICE - OUR TURN



○	Tth	Hth	Thth

Use or draw ten counters: how many different numbers can you make?

What's the largest number you can make?

What's the smallest number you can make?

help

Physically use the counters – remember nine is your max in each column before EXCHANGE!



Can you find multiple ways to show the same number?

GUIDED PRACTICE – YOUR TURN



○	Tth	Hth	Thth
●			

Use or draw ten counters: how many different numbers can you make?

What's the largest number you can make?

What's the smallest number you can make?

help

Physically use the counters – remember nine is your max in each column before EXCHANGE!

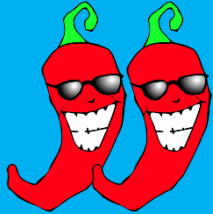


Can you find multiple ways to show the same number?



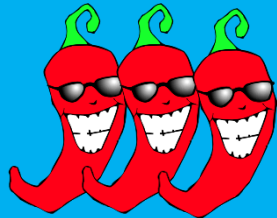
1) Write the number shown on the place value chart.

O	Tth	Hth	Thth
1	5	2	8



2) Draw 3.409 on the place value chart.

O	Tth	Hth	Thth



3) Write the number described.

My number has 5 ones, 7 hundredths and 3 thousandths



My number has 3 ones, 5 tenths and 13 thousandths.

What is my number?

1) **1.538**

		Tth	Hth	Thth
○	●			
●	●	● ● ● ● ●	● ● ●	● ● ● ● ● ● ● ●

2) Draw 3.409
on the place
value chart.

		Tth	Hth	Thth
○	●			
● ● ●	●	● ● ● ● ●		● ● ● ● ● ● ● ●

3) Write the number described.

My number has 5 ones, 7 hundredths and 3 thousandths

5.073

My number has 3 ones, 5 tenths and 13 thousandths.

What is my number? **3.513**



DIVE DEEPER 1

1) Complete the sentences.

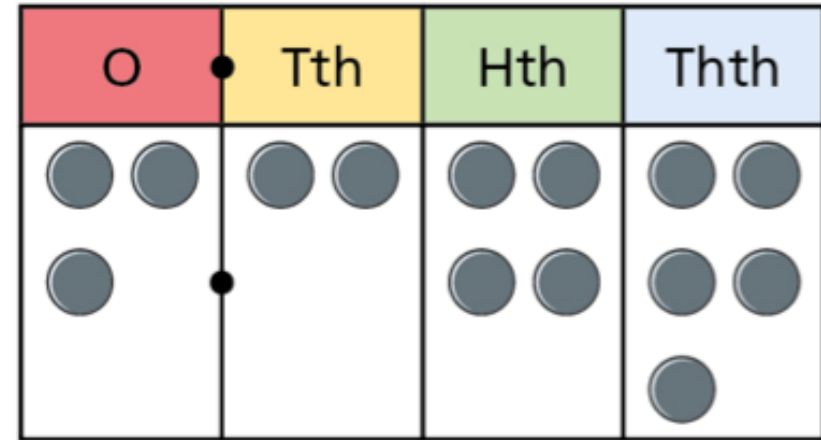
There are __ ones.

There are __ tenths.

There are __ hundredths.

The are __ thousandths.

The number in digits is _____.



2) Write the value of the 3 in each number.

a) 3.65

b) 0.093

c) 18.31

d) 72.439

e) 32.701

f) 19.03

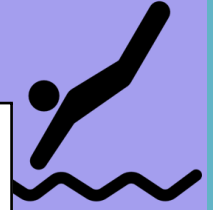
3) Complete the number sentences

a) $17.134 = 10 + 7 + 0.1 + \underline{\hspace{1cm}} + 0.004$

b) $94.077 = 90 + 4 + 0.07 + \underline{\hspace{1cm}}$

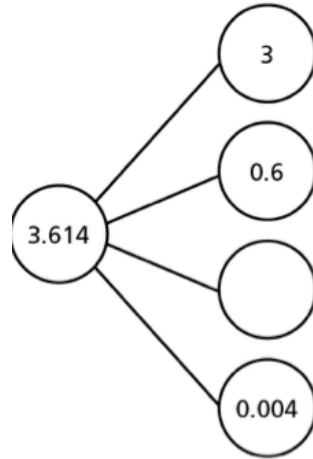
c) $\underline{\hspace{1cm}} = 30 + 6 + 0.08 + 0.009$

DIVE DEEPER 2

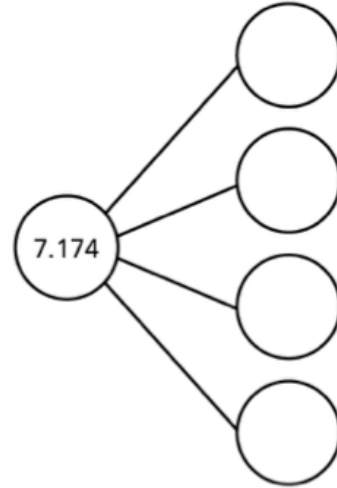


4) Complete the part-whole models.

a)



b)



5) Complete the number sentences.

$$1.456 = 1 + 0.4 + \underline{\quad} + 0.006$$

$$1.456 = 1 + 0.3 + \underline{\quad} + 0.006$$

$$1.456 = 1 + 0.2 + \underline{\quad} + 0.006$$

$$1.456 = 1 + \underline{\quad} + 0.006$$

6) Four children are thinking of four different numbers.

Yvonne: "My number has four hundredths."

Alex: "My number has the same amount of ones, tenths and hundredths."

Louise: "My number has more tenths and hundredths than ones."

Emily: "My number has 2 decimal places."

3.454

4.445

4.345

3.54

Match each number to the correct child.



Annie's chart

O	Tth	Hth	Thth
		●●	●
		●●	
		●●	
		●●	
		●●	
		●●	

Mo's chart

O	Tth	Hth	Thth
	●	●●	●

Mo and Annie have represented 0.121 on their place value charts.

Mo says, 'Only my grid shows 0.121.'

Annie says, 'Both our grids show 0.121.'

Who do you agree with? Explain why.

1) Complete the sentences.

There are **3** ones.

There are **2** tenths.

There are **4** hundredths.

The are **5** thousandths.

The number in digits is **3.245**.

O	Tth	Hth	Thth
● ●	● ●	● ●	● ●
●	●	● ●	● ●
			●

2) Write the value of the 3 in each number.

a) 3.65 : **3 ones**

b) 0.093 : **3 thousandths**

c) 18.31 : **3 tenths**

d) 72.439 : **3 hundredths**

e) 32.701 : **3 tens**

f) 19.03 : **3 hundredths**

3) Complete the number sentences

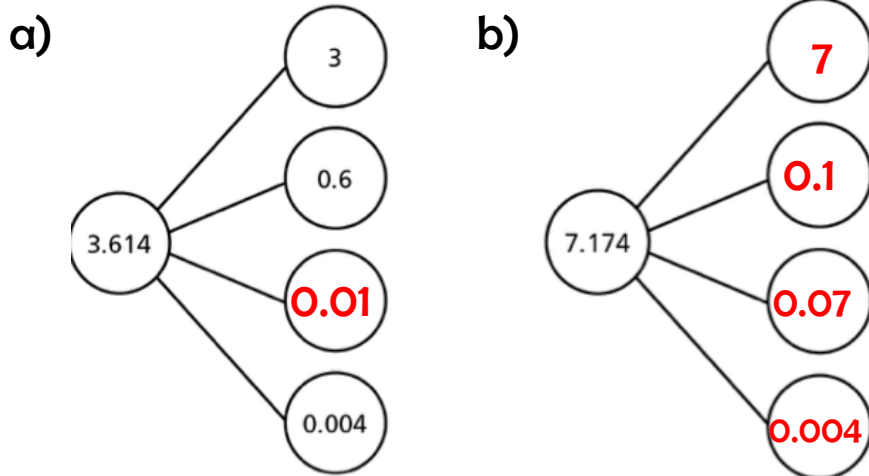
a) $17.134 = 10 + 7 + 0.1 + \mathbf{0.03} + 0.004$

b) $94.077 = 90 + 4 + 0.07 + \mathbf{0.007}$

c) $\mathbf{36.089} = 30 + 6 + 0.08 + 0.009$



4) Complete the part-whole models.



5. Complete the number sentences.

$$1.456 = 1 + 0.4 + 0.05 + 0.006$$

$$1.456 = 1 + 0.3 + 0.15 + 0.006$$

$$1.456 = 1 + 0.2 + 0.25 + 0.006$$

$$1.456 = 1 + 0.45 + 0.006$$



6) Four children are thinking of four different numbers.

Yvonne: "My number has four hundredths."

Alex: "My number has the same amount of ones, tenths and hundredths."

Louise: "My number has more tenths and hundredths than ones."

Emily: "My number has 2 decimal places."

Louise - 3.454 Alex - 4.445 Yvonne - 4.345 Emily - 3.54

Match each number to the correct child.

9a. Which is the odd one out?

A

45 tenths and
29 thousandths

B

4 point 5, 2, 9

C

Forty five point
2, 9

D

4.529

Give the number in digits and explain your answer.



9b. Which is the odd one out?

A

23.054

B

Twenty three
point five four

C

Two tens, three
ones, five
hundredths and
four thousandths

D

Two hundred
and thirty tenths
and fifty four
thousandths

Give the number in digits and explain your answer.



CHALLENGE