# LO: I am learning to identify the value of each digit in numbers given to 3 decimal places.

1. Use the place value counters to make the numbers and then draw your answers in the place value grids below.

   a) 1.434

   | T | O | Tth | Hth | Thth |
   |---|---|-----|-----|------|
   |   |   |     |     |      |

   b) 15.072

   | T | O | Tth | Hth | Thth |
   |---|---|-----|-----|------|
   |   |   |     |     |      |

   c) 8.0001

   | T | O | Tth | Hth | Thth |
   |---|---|-----|-----|------|
   |   |   |     |     |      |

   d) 60.01

   | T | O | Tth | Hth | Thth |
   |---|---|-----|-----|------|
   |   |   |     |     |      |

2. Let's see if you can identify the value of the digits and the number in this place value grid by completing these sentences:

   | T | O | Tth | Hth | Thth |
   |---|---|-----|-----|------|
   | ⬤⬤ | ⬤⬤ ⬤ | ⬤⬤ |   | ⬤ |

There are _____ tens.

There are _____ ones.

There are _____ tenths.

There are _____ hundredths.

There are _____ thousandths.

The number in digits is _____ .

3. Write the value of 4 in each number:

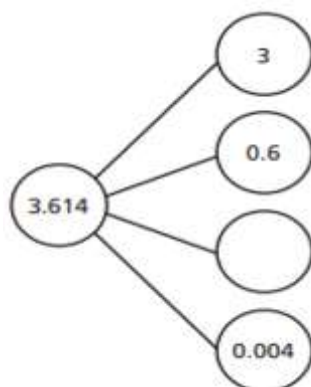   a) 4.56 _____

   b) 0.084 _____

   c) 16.41 _____

   d) 82.349 _____

   e) 42.701 _____

4. Look at the part whole model below. Which digit is missing? Complete the model.

Now think of your own number with 3 decimal places and draw a part whole model to show the value of each digit. Draw it in the space below:

5. Complete the following number sentences:

a)  1.456 = 1 + 0.4 + 0.05 + _____ .

b)  17.134 = 10 + _____ + 0.1 + _____ + 0.004.

c)  94.077 = 90 + 4 + 0.07 + _____ .

d)  _____ = 30 + 4 + 0.07 + 0.009

6. Now write at least 2 of your own number sentences, leaving one part incomplete. Complete it yourself or ask a partner to tell you the answer!

_____

_____

_____

_____

7. Miss Andrews and Miss Summers are arguing. They have been asked to represent 0.123 on a place value chart but Miss Andrews thinks Miss Summers is wrong…

Both of our charts show 0.123!

Only my grid shows 0.123!

Who do you agree with? How might both teachers have shown 0.123 on their chart?

Draw your own place value charts in the space below to show how Miss Summers and Miss Andrews completed their charts Once you have done this, write a written explanation to explain who is right and why.

_____

_____

_____

_____