25/1/21 (Monday) – Can I understand the relationship between tenths, hundredths and thousandths?

2.308

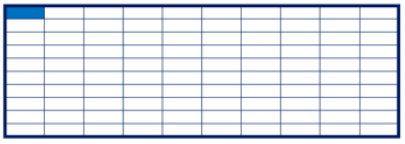
This number has 2 ones, 3 tenths, 0 hundredths and 8 thousandths.

Here it is on a place value chart:

o	tths	hths	thths
2 •	3	0	8

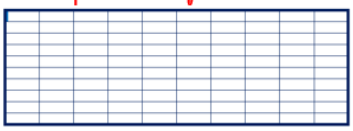
$\frac{1}{10}$ 0.1 One part out of 10

$\frac{1}{100}$ 0.01 One part out of 100



We get a hundredth when we divide a whole by 100, or a tenth by 10.

$\frac{1}{1000}$ 0.001 One part out of 1000



We get a thousandth when we divide a whole by 1000, or a hundredth by 10.

Express these as decimal fractions:

a 6 tenths, 7 hundredths, 4 thousandths 0 •

b $\frac{432}{1000}$ 0 •

c 4 tenths, 9 hundredths, 3 thousandths 0 •

d $\frac{589}{1000}$ 0 •

e 0 tenths, 2 hundredths, 9 thousandths 0 •

f $\frac{7}{1000}$ 0 •

g 4 thousandths 0 •

h $\frac{1000}{1000}$ •

These answers are all close but incorrect. Write the correct answers:

a twenty seven tenths is written as 0.27 No it's not, it's written as

b forty eight hundredths is written as 0.048 No it's not, it's written as

c 9000 thousandths is written as 0.009 No it's not, it's written as

d eleven and 12 hundredths is written as 11.012 No it's not, it's written as

e 167 hundredths is written as 16.7 No it's not, it's written as

In this problem symbols have been used to represent two different numbers. Write down the value of each, as a mixed number and as a decimal.

○ = 1 ☆ = $\frac{1}{10}$ △ = $\frac{1}{100}$ ⬠ = $\frac{1}{1000}$