

Three decimal places



1 Use place value counters to make the numbers.
Draw your answers.

a) 1.343

T	O	Tth	Hth	Thth
	○	○ ○ ○	○ ○ ○ ○	○ ○ ○

b) 16.052

T	O	Tth	Hth	Thth
○	○ ○ ○ ○ ○ ○ ○ ○		○ ○ ○ ○ ○ ○	○ ○

c) 7.001

T	O	Tth	Hth	Thth
	○ ○ ○ ○ ○ ○ ○ ○			○

d) 70.01

T	O	Tth	Hth	Thth
○ ○ ○ ○ ○ ○ ○ ○			○	

2 Complete the sentences.

O	Tth	Hth	Thth
○ ○ ○	○ ○	○ ○ ○	○ ○ ○ ○
○	○	○ ○	○ ○ ○ ○ ○

There are ones.

There are tenths.

There are hundredths.

There are thousandths.

The number in digits is

3 Write the value of the 3 in each number.

a) 3.65 3 ones

b) 0.093 3 thousandths

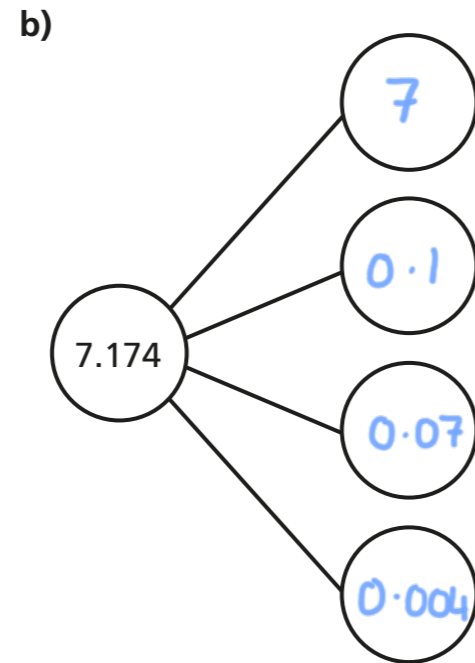
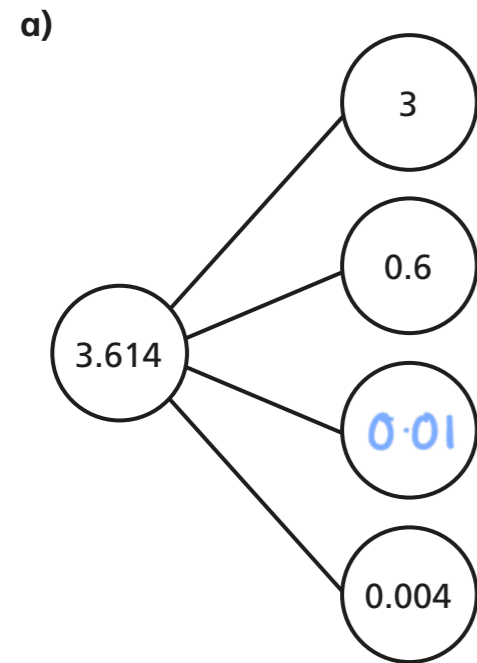
c) 18.31 3 tenths

d) 72.439 3 hundredths

e) 32.701 3 tens

f) 19.03 3 hundredths

4 Complete the part-whole models.



5 Complete the number sentences.

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

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

c) $\boxed{34.079} = 30 + 4 + 0.07 + 0.009$

6 Complete the number sentences.

$1.456 = 1 + 0.4 + \boxed{0.05} + 0.006$

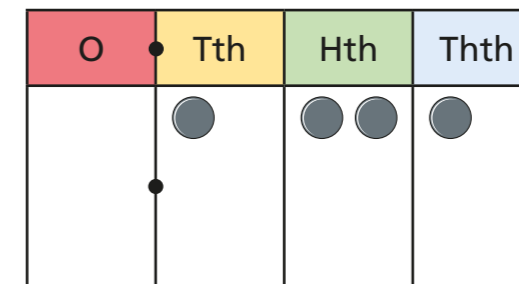
$1.456 = 1 + 0.3 + \boxed{0.15} + 0.006$

$1.456 = 1 + 0.2 + \boxed{0.25} + 0.006$

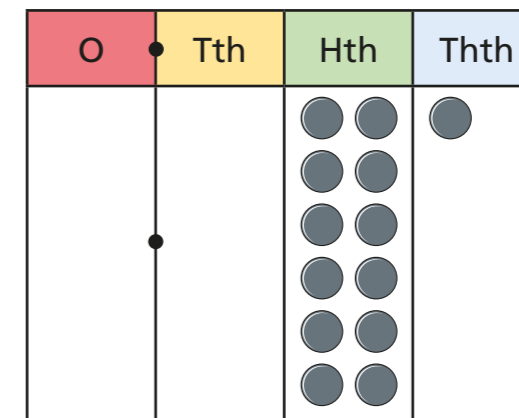
$1.456 = 1 + \boxed{0.45} + 0.006$

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

Mo's chart

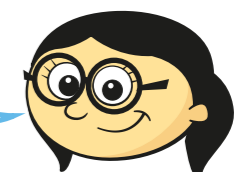


Annie's chart



Mo

Only my grid shows 0.121



Annie

Both our grids show 0.121

Who do you agree with? Annie

Explain why.

Annie could exchange 10 hundredths for one tenth then their grids would be the same.