Thousandths as decimals

1 Represent the numbers on a place value chart.

Write the decimal.

a) 5 ones, 7 tenths, 0 hundredths and 2 thousandths

5·702

b) 0 ones, 6 tenths, 2 hundredths and 9 thousandths

0·629

c) 7 ones, 0 tenths, 1 hundredth and 3 thousandths

7·013

d) 5 ones, 6 tenths, 7 hundredths and 0 thousandths

5·67

e) What would these numbers be as fractions?

Talk about it with a partner.

2 Write the mixed numbers as decimals.

a) $4\frac{514}{1000}$ = 4·514   **d)** $1\frac{50}{1000}$ = 1·05

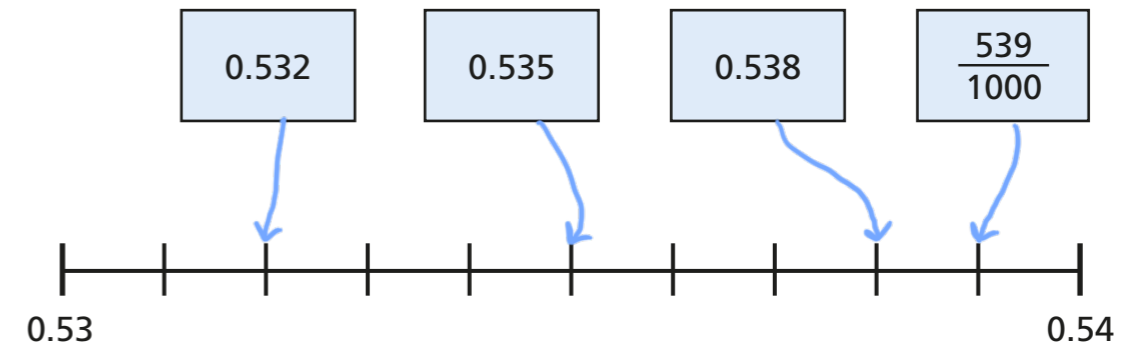**b)** $6\frac{325}{1000}$ = 6·325   **e)** $4\frac{5}{1000}$ = 4·005
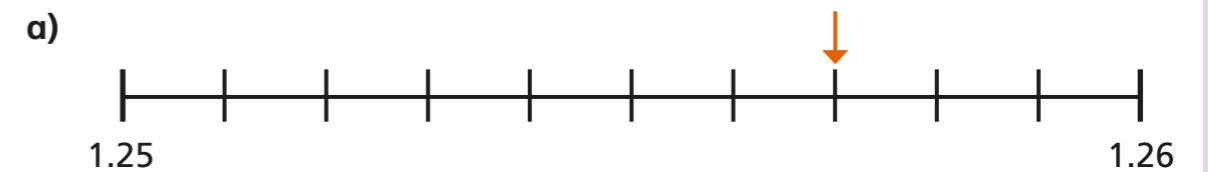
c) $2\frac{250}{1000}$ = 2·25   **f)** $\frac{2}{1000}$ = 0·002

3 Mo is placing decimal numbers on a number line.

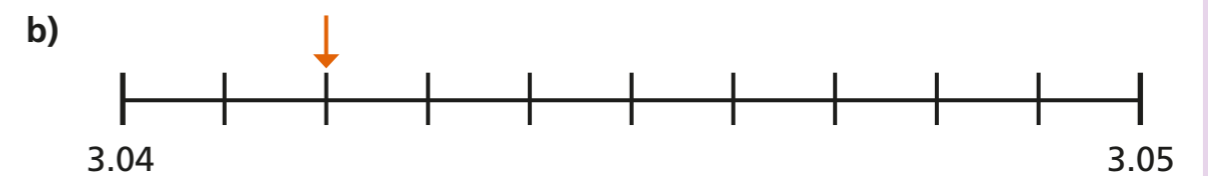Draw an arrow from each number to its position on the number line.

| 0.532 | 0.535 | 0.538 | $\frac{539}{1000}$ |

0.53   0.54

4 What number is the arrow pointing to?

Write each number as a decimal and as a fraction.

a)

1.25   1.26

decimal = 1·257   fraction = $\frac{1257}{1000}$

b)

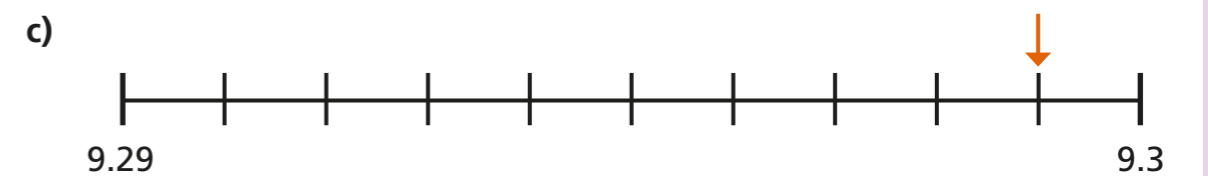3.04   3.05

decimal = 3·042   fraction = $\frac{3042}{1000}$

c)

9.29   9.3

decimal = 9·299   fraction = $\frac{9299}{1000}$

5 Complete the table to continue the pattern.

$\frac{57}{1000}$	$\frac{58}{1000}$	$\frac{59}{1000}$	$\frac{60}{1000}$	$\frac{61}{1000}$	$\frac{62}{1000}$	$\frac{63}{1000}$	$\frac{64}{1000}$
0.057	0.058	0.059	0.06	0.061	0.062	0.063	0.064

6 Write a decimal to complete the statement.

a) $\frac{7}{10} + \frac{3}{100} + \frac{9}{1000} =$ 0.739

b) $\frac{9}{10} + \frac{7}{100} + \frac{1}{1000} =$ 0.971

c) $\frac{7}{100} + \frac{9}{10} + \frac{1}{1000} =$ 0.971

d) $\frac{2}{10} + \frac{7}{1000} =$ 0.207

e) $\frac{6}{100} + \frac{3}{1000} =$ 0.063

7 Eva has 12 plain counters.

She makes numbers using the place value chart.

1		$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

a) List five numbers that Eva could make.

Various answers

b) What is the greatest and smallest number she can make with all 12 counters?

greatest 12   smallest 0.012

8 Whitney is representing 0.536

$$\frac{50}{100} + \frac{18}{1000} + \frac{18}{1000}$$

a) Is Whitney correct? _Yes_

Explain your answer.

b) Partition Whitney's number another way.

_e.g._ $\frac{5}{10} + \frac{3}{100} + \frac{6}{1000}$