# 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

**b)** $6\frac{325}{1000}$ = 6·325

**c)** $2\frac{250}{1000}$ = 2·25

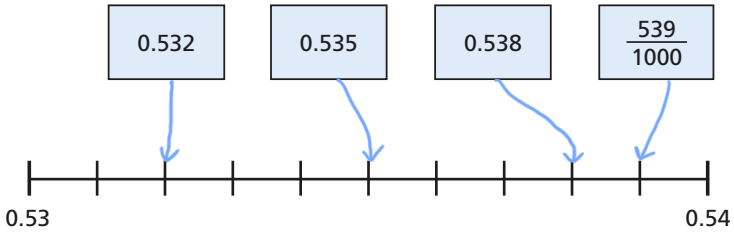
**d)** $1\frac{50}{1000}$ = 1·05

**e)** $4\frac{5}{1000}$ = 4·005

**f)** $\frac{2}{1000}$ = 0·002

**3** Mo is placing decimal numbers on a number line.

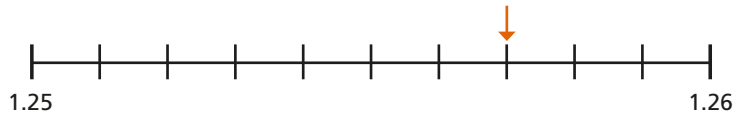
Draw an arrow from each number to its position on the number line.




**4** What number is the arrow pointing to?

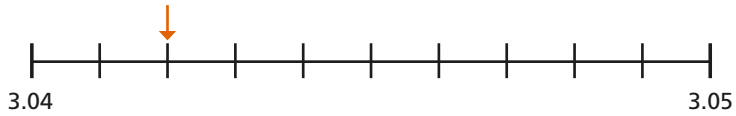
Write each number as a decimal and as a fraction.

**a)**



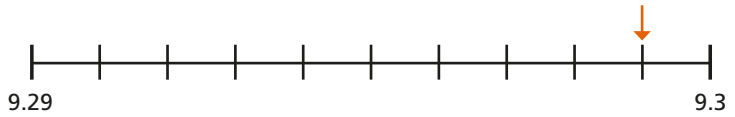

decimal = 1·257 fraction = $\frac{1257}{1000}$

**b)**




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

**c)**




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.

e.g. 5.304 6.024 10.011 3.441 1.551

**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. $0.536 = \frac{1}{2} + \frac{3}{100} + \frac{6}{1000}$