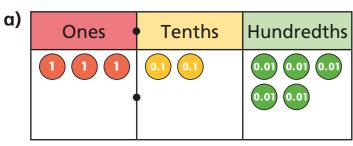# Write decimals

1 Make the number represented on each of the place value charts.

Complete the sentences to describe each number.
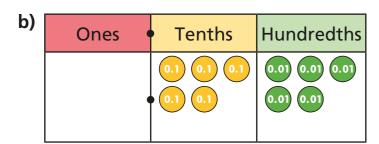
a)

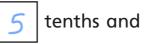| Ones	Tenths	Hundredths
1 1 1	0.1 0.1	0.01 0.01 0.01 0.01 0.01

There are $\boxed{3}$ ones, $\boxed{2}$ tenths and $\boxed{5}$ hundredths.

The number is $\boxed{3.25}$

b)

Ones	Tenths	Hundredths
	0.1 0.1 0.1 0.1 0.1	0.01 0.01 0.01 0.01 0.01

There are $\boxed{0}$ ones, $\boxed{5}$ tenths and $\boxed{5}$ hundredths.

The number is $\boxed{0.55}$

c)

Ones	Tenths	Hundredths
1 1 1		0.01 0.01 0.01 0.01 0.01 0.01 0.01

There are $\boxed{3}$ ones, $\boxed{0}$ tenths and $\boxed{7}$ hundredths.

The number is $\boxed{3.07}$

d)

Ones	Tenths	Hundredths
1 1 1	0.1 0.1 0.1 0.1 0.1 0.1 0.1	

There are $\boxed{3}$ ones, $\boxed{7}$ tenths and $\boxed{0}$ hundredths.

The number is $\boxed{3.7}$

2 Make each number on a place value chart.

Write the value of the underlined digit.

a) 6.<u>3</u>1 $\underline{3 \quad tenths}$ (0.3)

b) 1<u>2</u>.09 $\underline{2 \quad ones}$ (2)

c) 0.0<u>7</u> $\underline{7 \quad hundredths}$ (0.07)

d) <u>5</u>6.82 $\underline{5 \quad tens}$ (50)

3 Alex says the number on the place value chart is 3.4

Ones	Tenths	Hundredths
● ● ●		● ● ● ●

Do you agree with Alex? $\underline{No}$

Explain your answer.

4 Fill in the zeros needed as placeholders for each number.

a)

T	O	Tths	Hths
3	2	0	4

b)

T	O	Tths	Hths
	2	0	4

c)

T	O	Tths	Hths
	0	0	4

d)

T	O	Tths	Hths
	0	5	

e)

T	O	Tths	Hths
	2		

f)

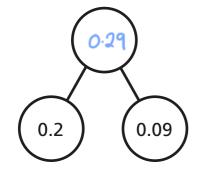| T	O	Tths	Hths
3	0	5	

Compare answers with a partner.

5 Complete the part-whole models.

a)

- 0.29
  - 0.2
  - 0.09

c)

- 0.53
  - 0.4
  - 0·13

b)

- 0.3
- 0·47 — 0.07
- 0.1

d)

- 0.4
- 0.81 — 0·13
- 0.28

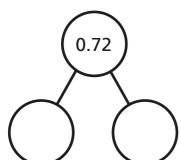**6** Here is a part-whole model.

Partition 0.72 in three different ways and complete the number sentences.

- 0.72

e.g

$0·7$ + $0·02$ = 0.72

$0·6$ + $0·12$ = 0.72

$0·5$ + $0·22$ = 0.72

7 Eva is asked to show 10 tenths on a place value chart.

Here is her answer.

Ones	Tenths	Hundredths
	●●●●●	
	●●●●●	

Is Eva correct?

8 Here are five number cards.

Annie, Rosie, Jack, Dora and Whitney take one card each.

| 0.06 | 0.4 | 0.2 | 0.05 | 0.03 |

Use the clues to work out which number they each have.

Annie: My number has 5 hundredths.

Rosie: My number is twice as much as Dora's.

Jack: My number has 2 zero place holders.

Dora: My number is more than Jack's.

Whitney: My number is less than Jack's.

Annie $0·05$ Dora $0·2$ Whitney $0·03$

Rosie $0·4$ Jack $0·06$

Did your partner use the same method?