DECIMALS – DAY 2

To be able to write numbers with up to two decimal places

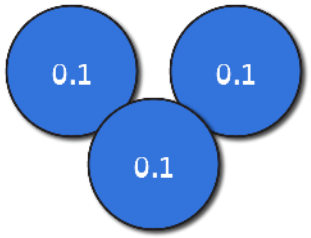
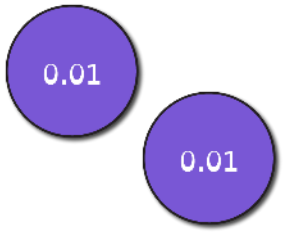
SUCCESS CRITERIA

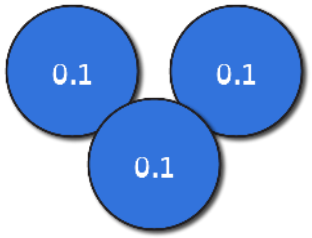
✓I can use mathematical equipment and pictorial representations, such as place value charts, to help me write numbers with up to two decimal places.

✓I can explain my reasoning when using mathematical equipment and pictorial representations, such as place value charts, to help me write numbers with up to two decimal places.

STARTER

Complete the table on the right.

ones	tenths	hundredths
		
0	3	2

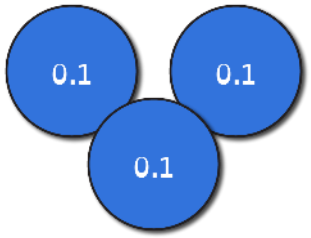
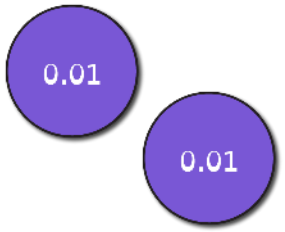
ones	tenths	hundredths
		

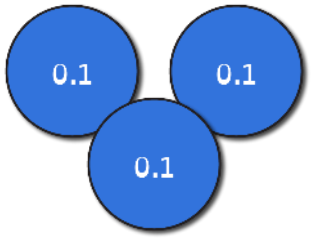
What's the same? What's different?

Explain your answer.

STARTER

Complete the table on the right.

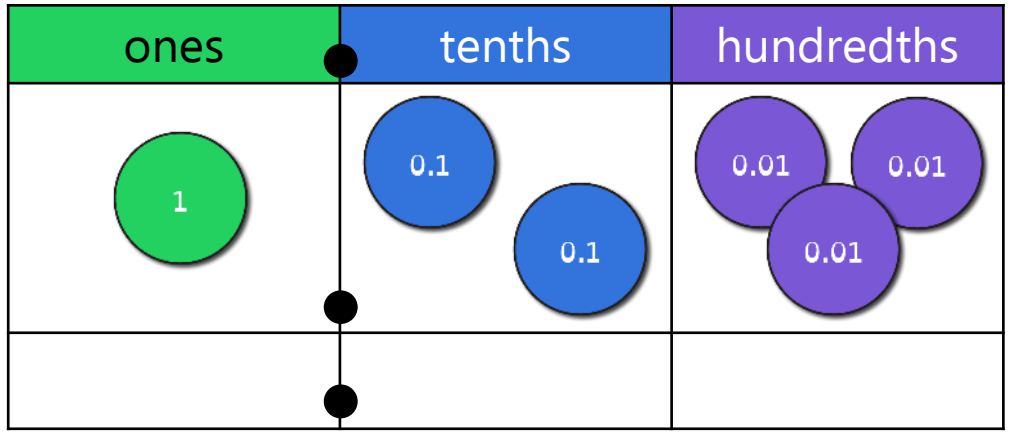
ones	tenths	hundredths
		
0	3	2

ones	tenths	hundredths
		
0	3	1

Both numbers have 3 tenths. The left-hand chart has 2 hundredths, whereas the right-hand table only has 1 tenth.

TALKING TIME

What number is shown by the place value chart below?

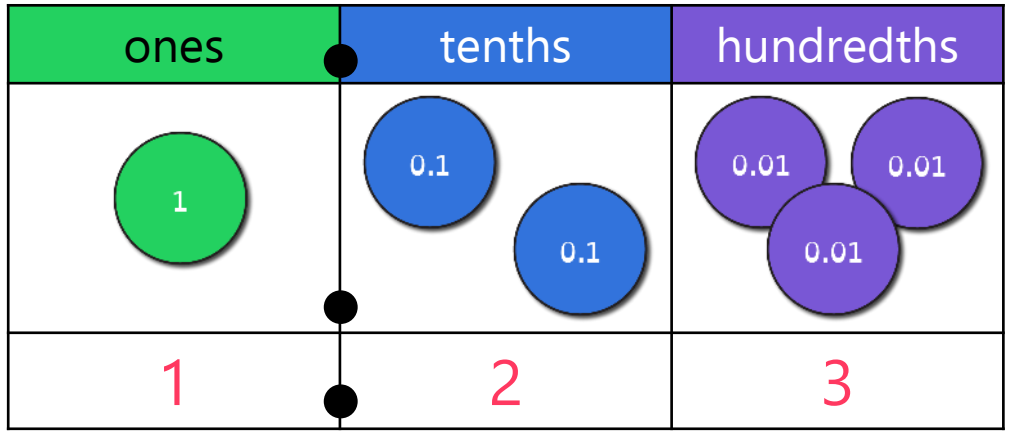


The number shown has _ ones, _ tenths and _ hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

TALKING TIME

What number is shown by the place value chart below?

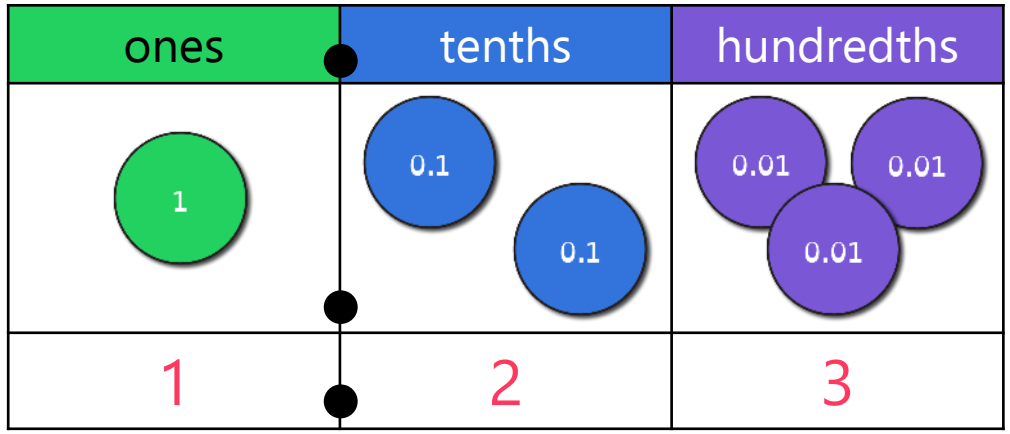


The number shown has _ ones, _ tenths and _ hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

TALKING TIME

What number is shown by the place value chart below?



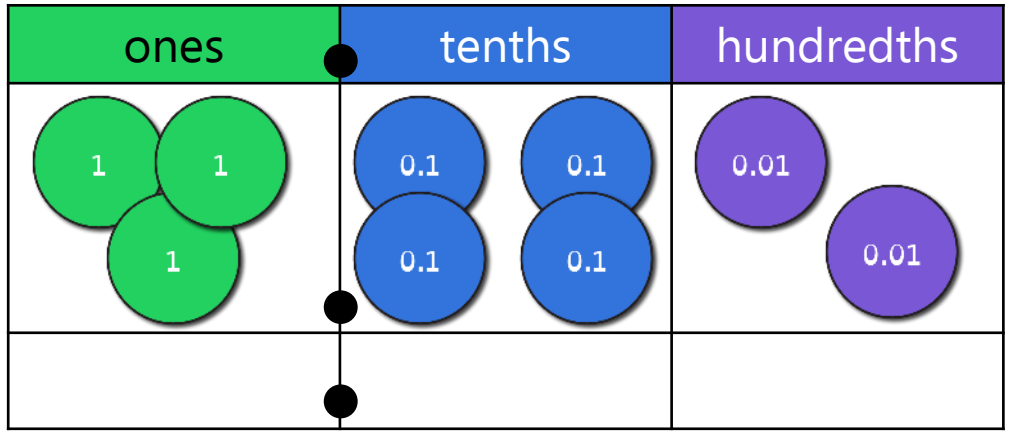
The number shown has 1 ones,

2 tenths and 3 hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

TALKING TIME

What number is shown by the place value chart below?

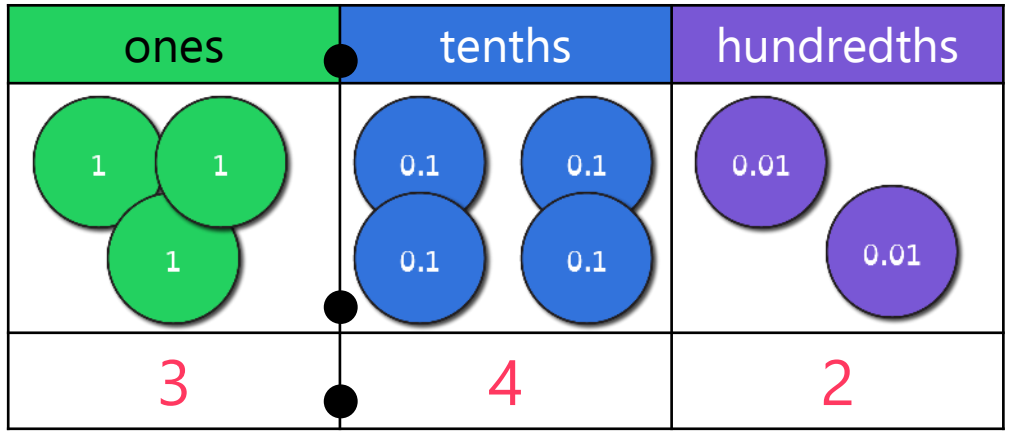


The number shown has _ ones, _ tenths and _ hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

TALKING TIME

What number is shown by the place value chart below?

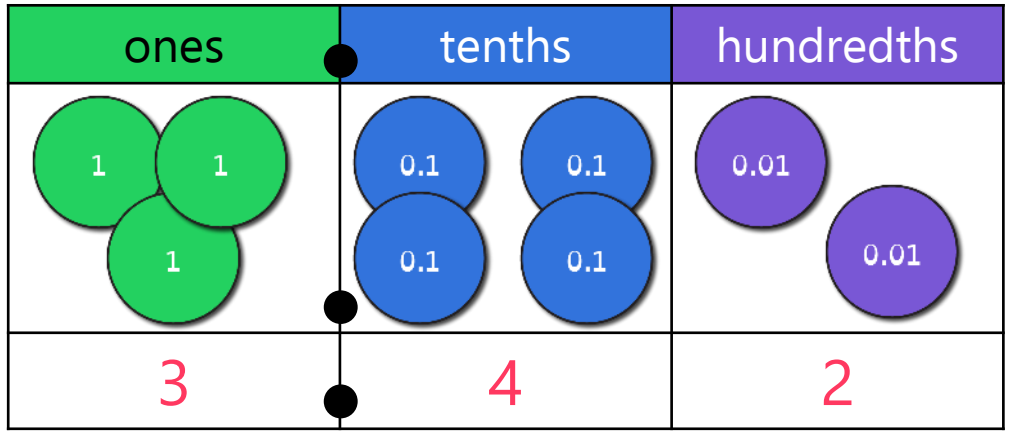


The number shown has _ ones, _ tenths and _ hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

TALKING TIME

What number is shown by the place value chart below?



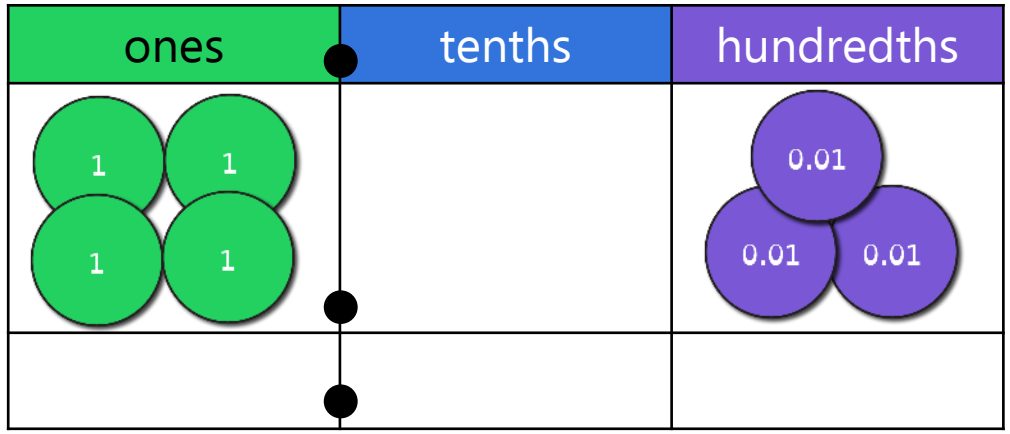
The number shown has **3** ones,

4 tenths and **2** hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

TALKING TIME

What number is shown by the place value chart below?

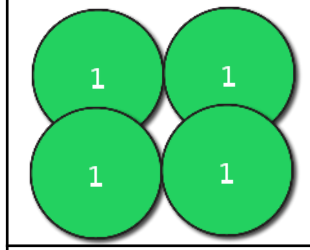
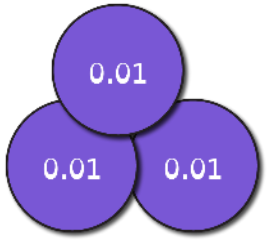


The number shown has _ ones, _ tenths and _ hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

TALKING TIME

What number is shown by the place value chart below?

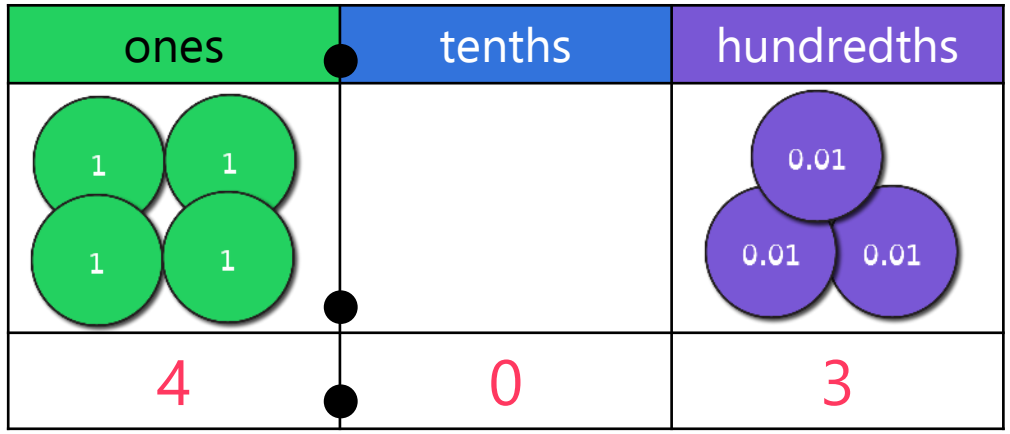
ones	tenths	hundredths
		
4	0	3

The number shown has _ ones, _ tenths and _ hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

TALKING TIME

What number is shown by the place value chart below?



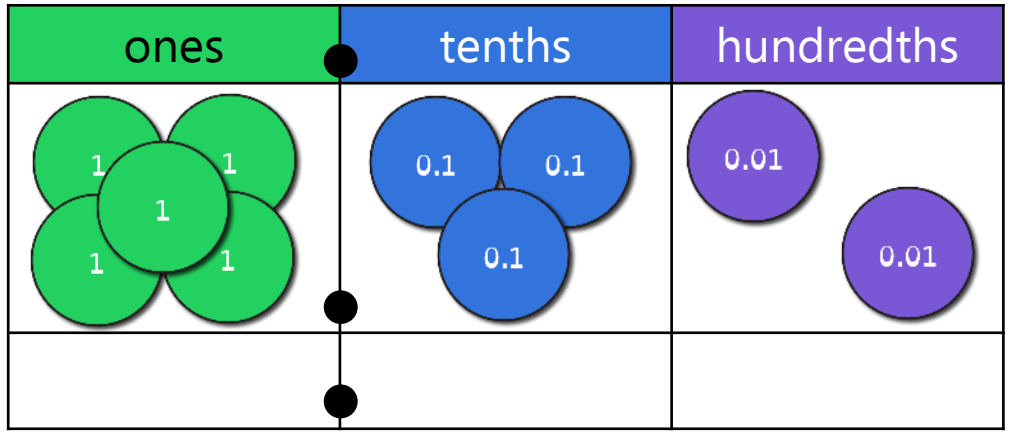
The number shown has **4** ones,

0 tenths and **3** hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

ACTIVITY 1

What number is shown by the place value chart below?

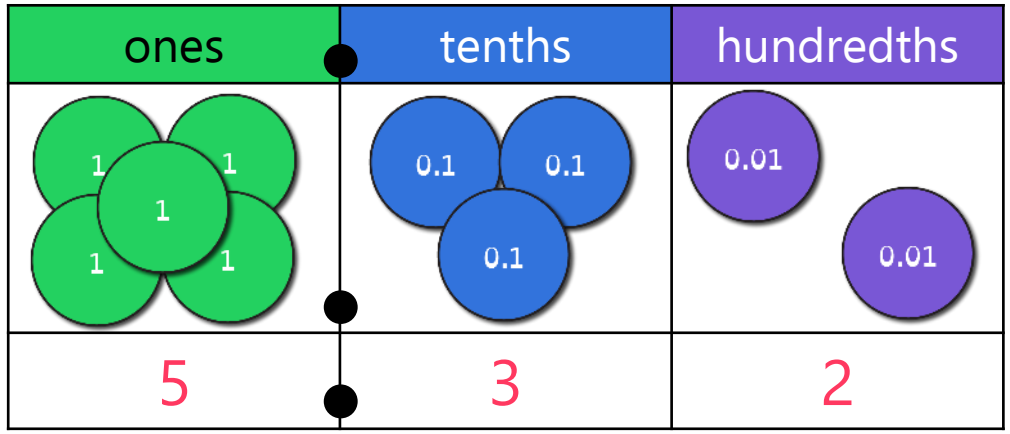


The number shown has _ ones, _ tenths and _ hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

ACTIVITY 1

What number is shown by the place value chart below?

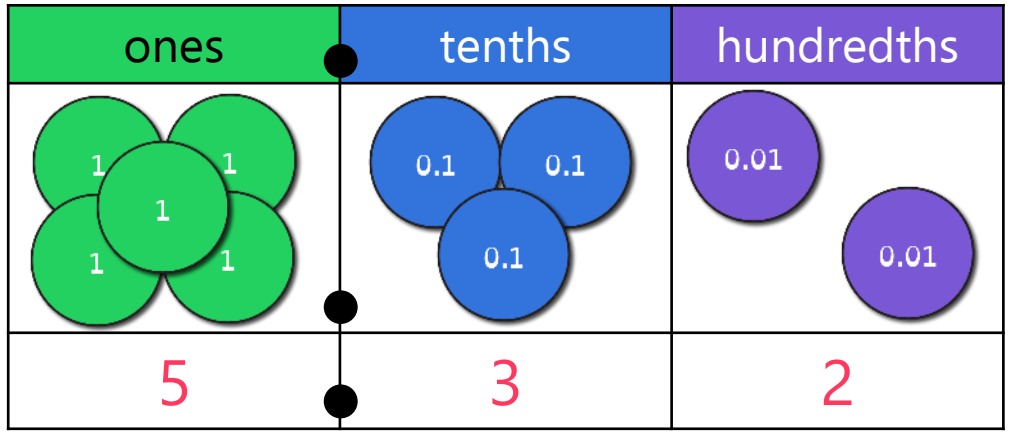


The number shown has _ ones, _ tenths and _ hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

ACTIVITY 1

What number is shown by the place value chart below?



The number shown has **5** ones,

3 tenths and **2** hundredths.

Fill in the blanks on the sentences to the right of the place value chart.

TALKING TIME

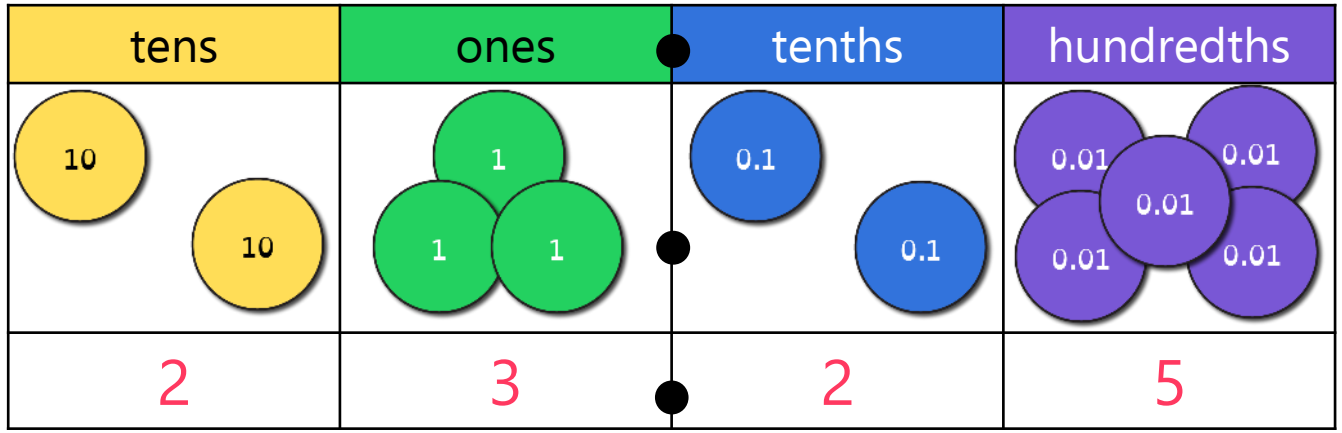
Make the number 2<u>3</u>.25 in the place value chart below.
Then, complete the sentence below.

tens	ones	tenths	hundredths

The value of the underlined digit is:
or

TALKING TIME

Make the number 2<u>3</u>.25 in the place value chart below.
Then, complete the sentence below.



The value of the underlined digit is:
<u>3</u> or **<u>three ones</u>**

TALKING TIME

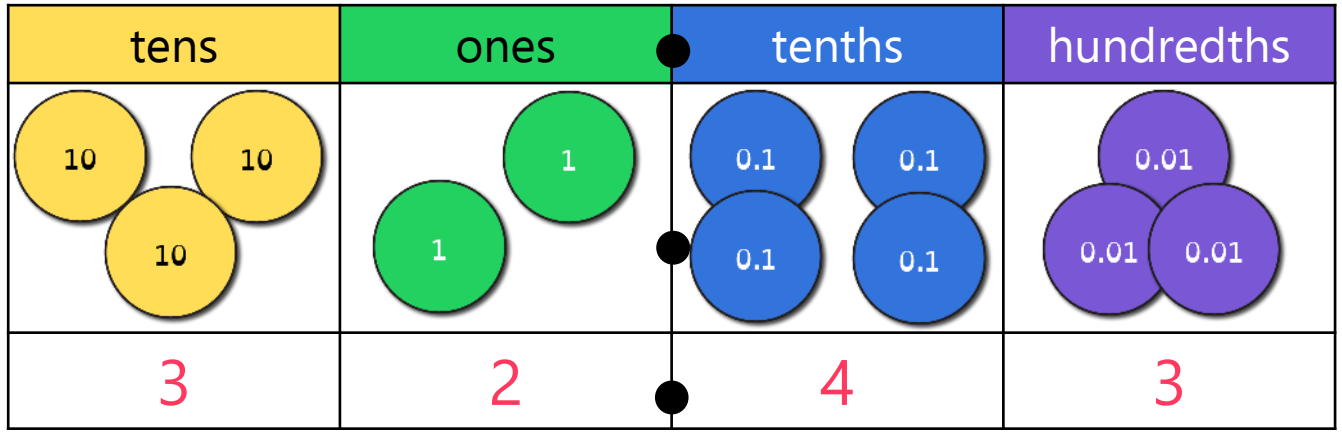
Make the number 32.<u>4</u>3 in the place value chart below.
Then, complete the sentence below.

tens	ones	tenths	hundredths

The value of the underlined digit is:
or

TALKING TIME

Make the number 32.<u>4</u>3 in the place value chart below.
Then, complete the sentence below.



The value of the underlined digit is:
<u>0.4</u> or **<u>4 tenths</u>**

ACTIVITY 2

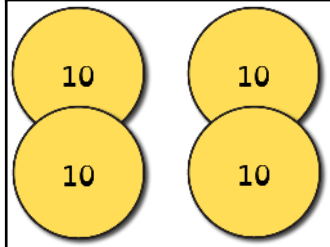
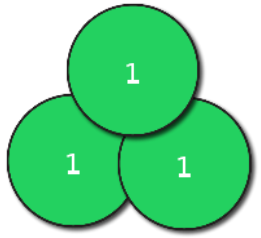
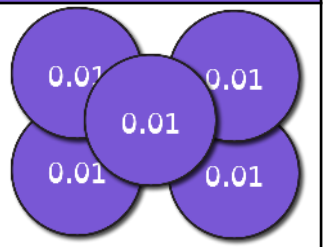
Make the number 43.0<u>5</u> in the place value chart below.
Then, complete the sentence below.

tens	ones	tenths	hundredths

The value of the underlined digit is:
or

ACTIVITY 2

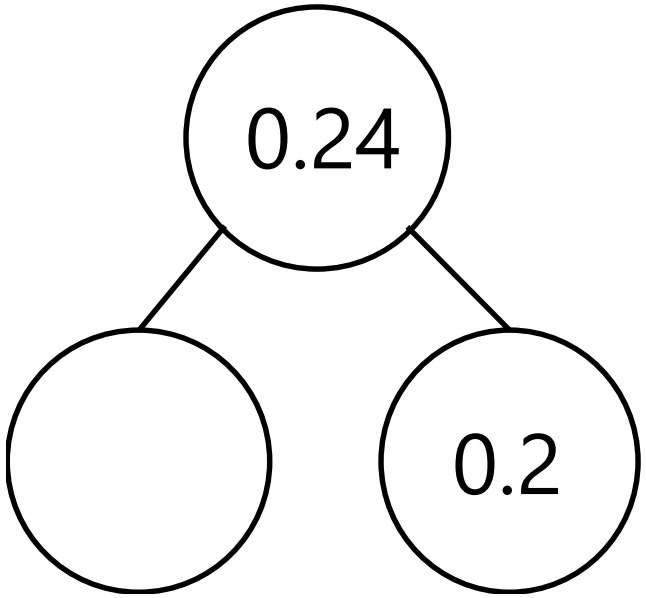
Make the number 43.0<u>5</u> in the place value chart below.
Then, complete the sentence below.

tens	ones	tenths	hundredths
			
4	3	0	5

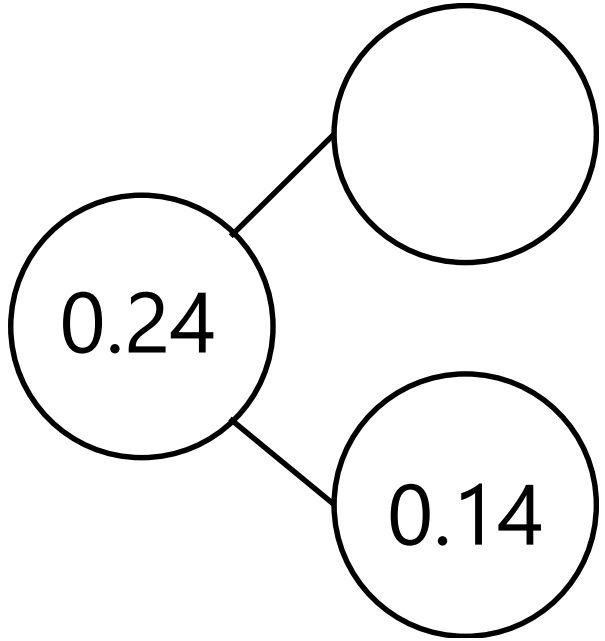
The value of the underlined digit is:
<u>0.05</u> or **<u>5 hundredths</u>**

TALKING TIME

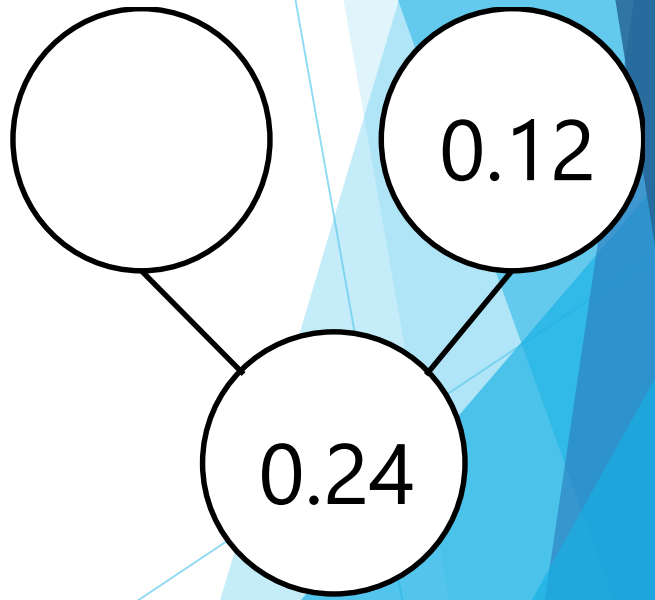
Use the part-whole models below to partition the decimal number in different ways.



0.__ + 0.2 = 0.24



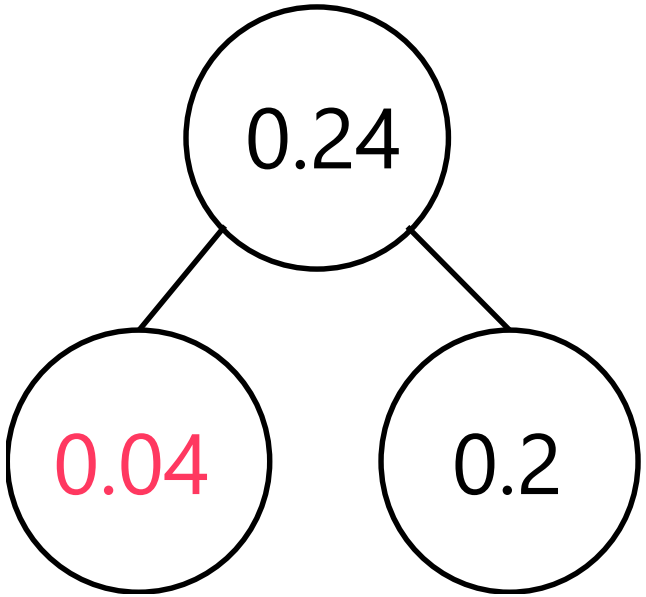
0.14 + 0.__ = 0.24



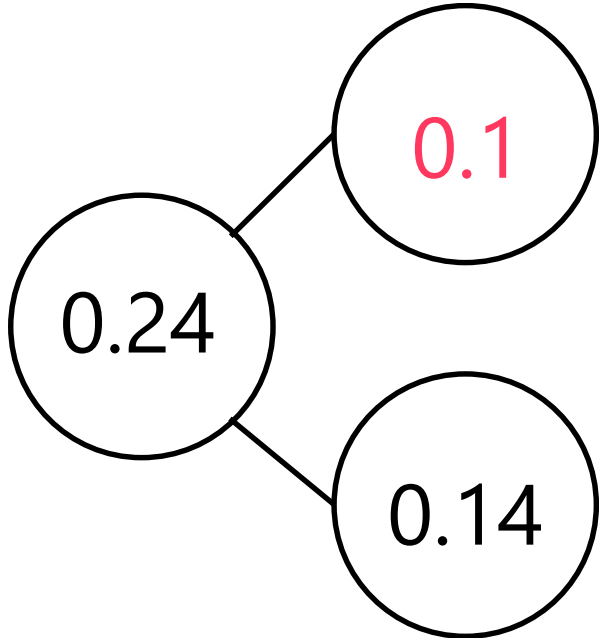
0.__ + 0.12 = 0.24

TALKING TIME

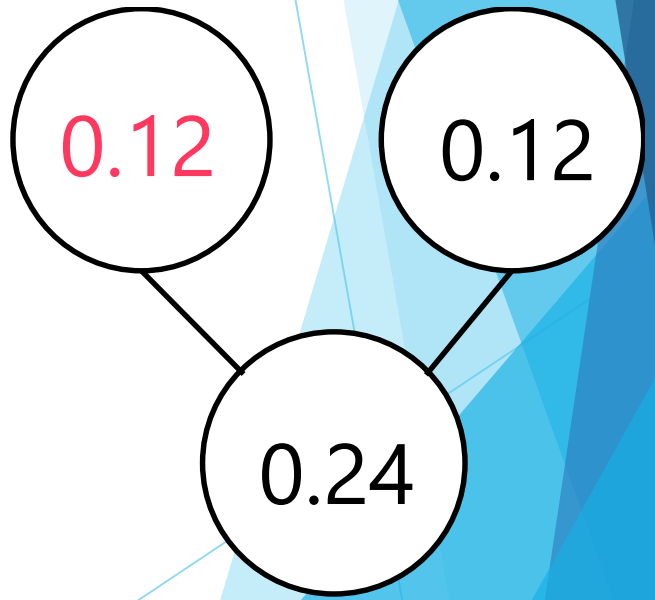
Use the part-whole models below to partition the decimal number in different ways.



0.**04** + 0.2 = 0.24



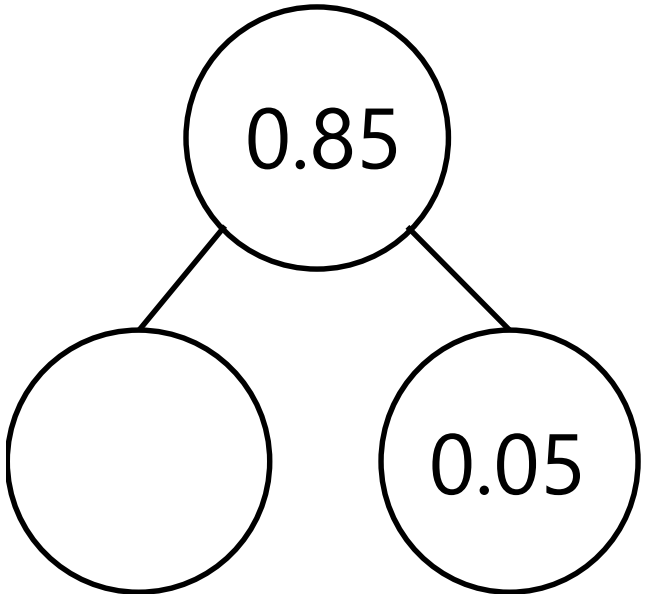
0.14 + 0.**1** = 0.24



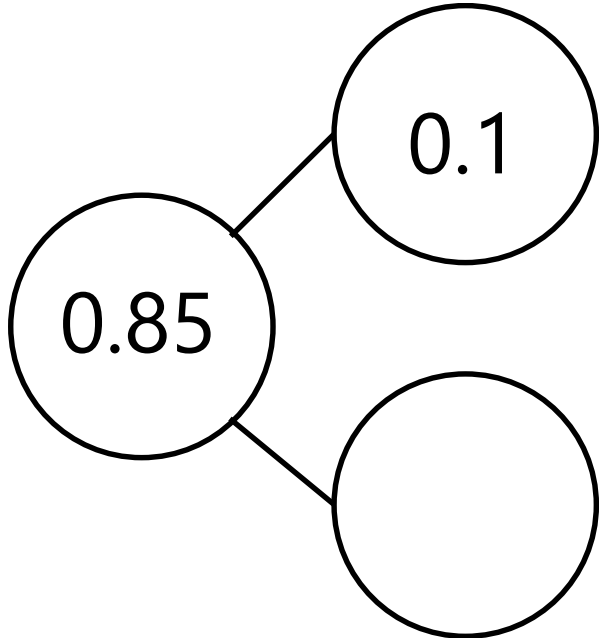
0.**12** + 0.12 = 0.24

TALKING TIME

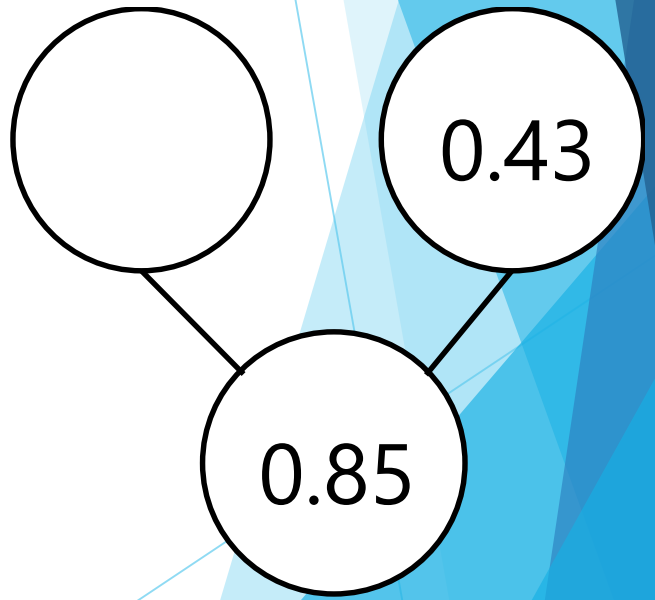
Use the part-whole models below to partition the decimal number in different ways.



0.05 + 0.__ = 0.85



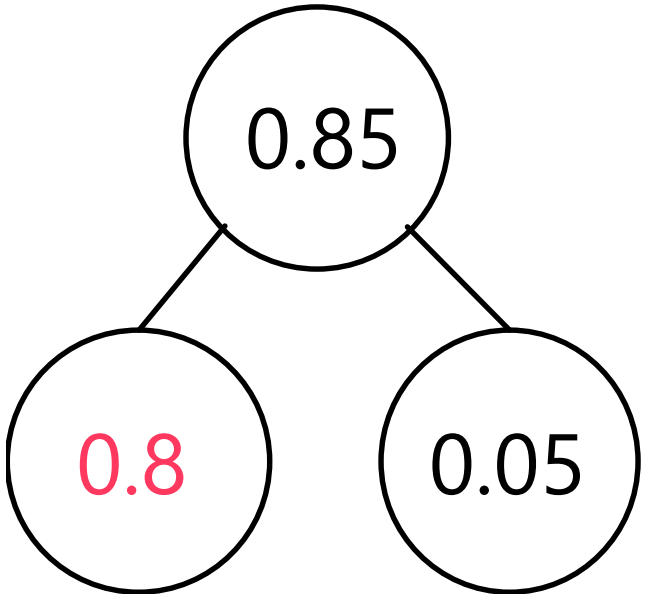
0.1 + 0.__ = 0.85



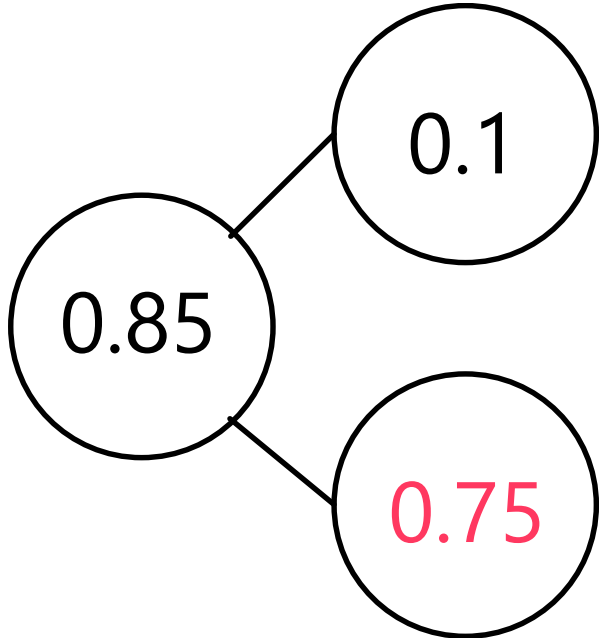
0.43 + 0.__ = 0.85

TALKING TIME

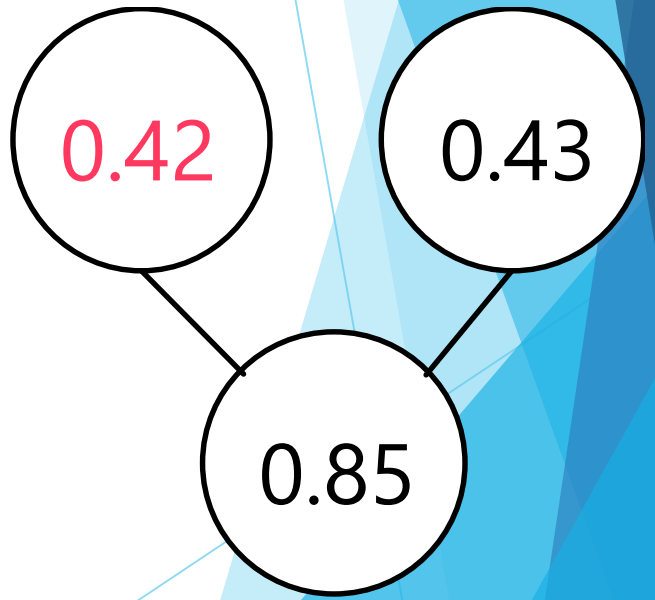
Use the part-whole models below to partition the decimal number in different ways.



0.05 + 0.**8** = 0.85



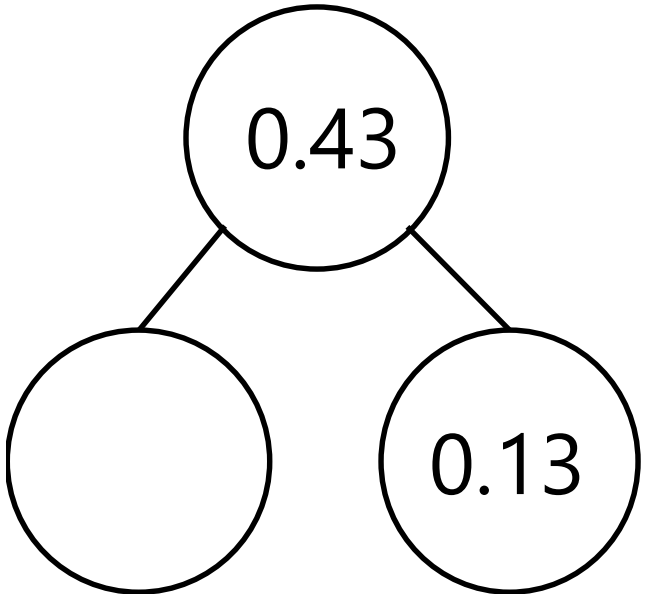
0.1 + 0.**75** = 0.85



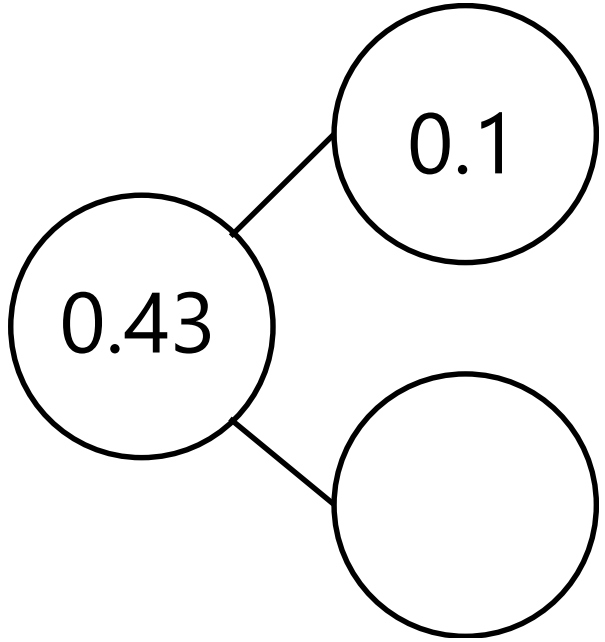
0.43 + 0.**42** = 0.85

ACTIVITY 3

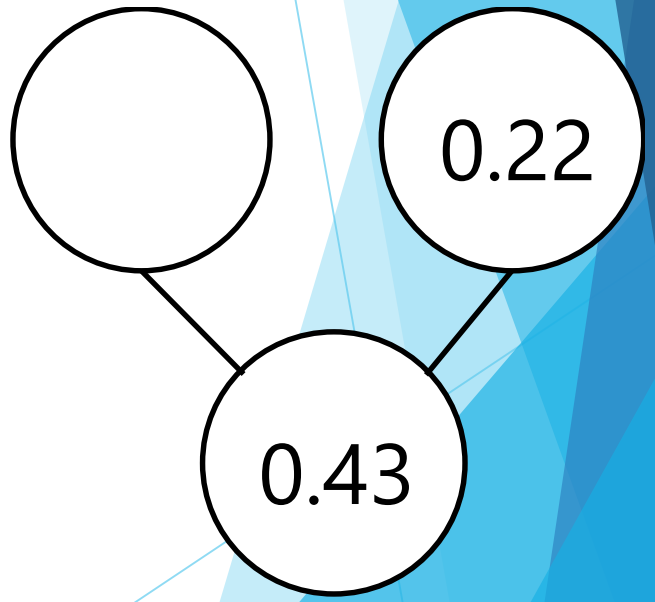
Use the part-whole models below to partition the decimal number in different ways.



0.13 + 0.__ = 0.43



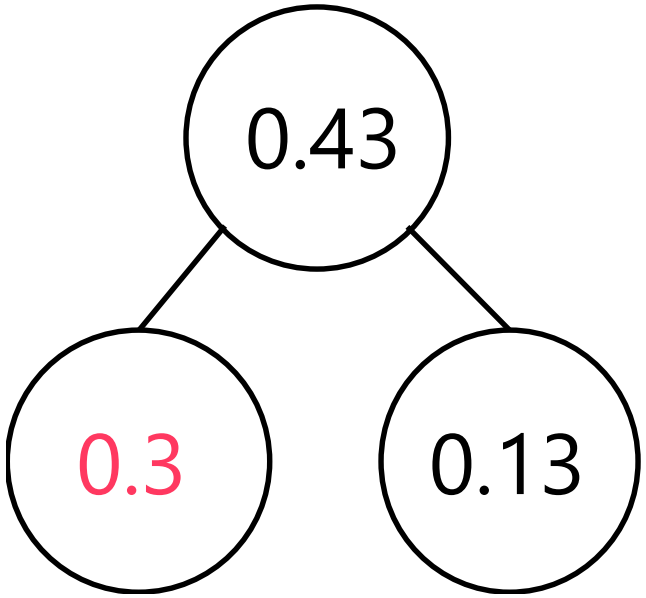
0.1 + 0.__ = 0.43



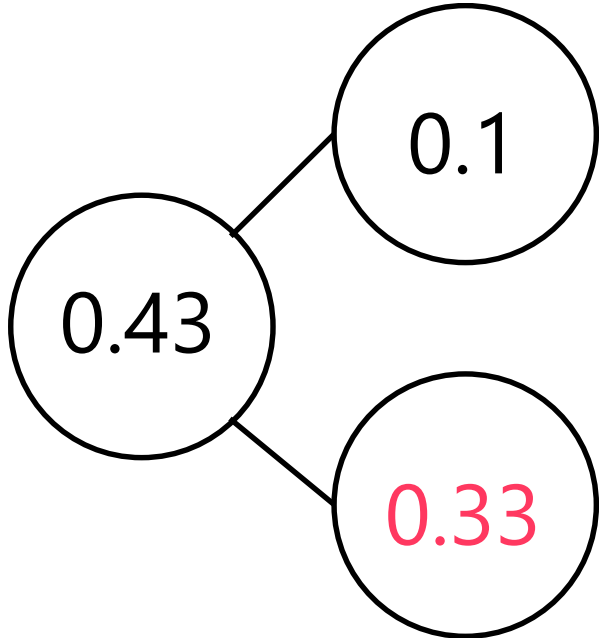
0.22 + 0.__ = 0.43

ACTIVITY 3

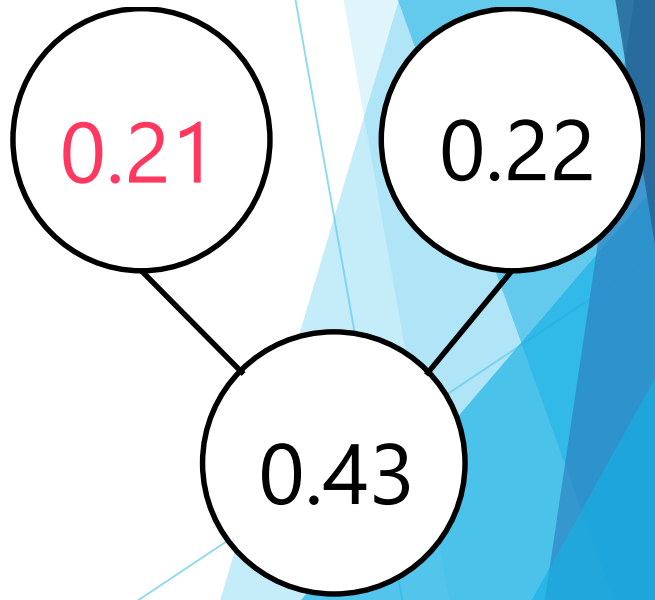
Use the part-whole models below to partition the decimal number in different ways.



0.13 + 0.**3** = 0.43



0.1 + 0.**33** = 0.43



0.22 + 0.**21** = 0.43

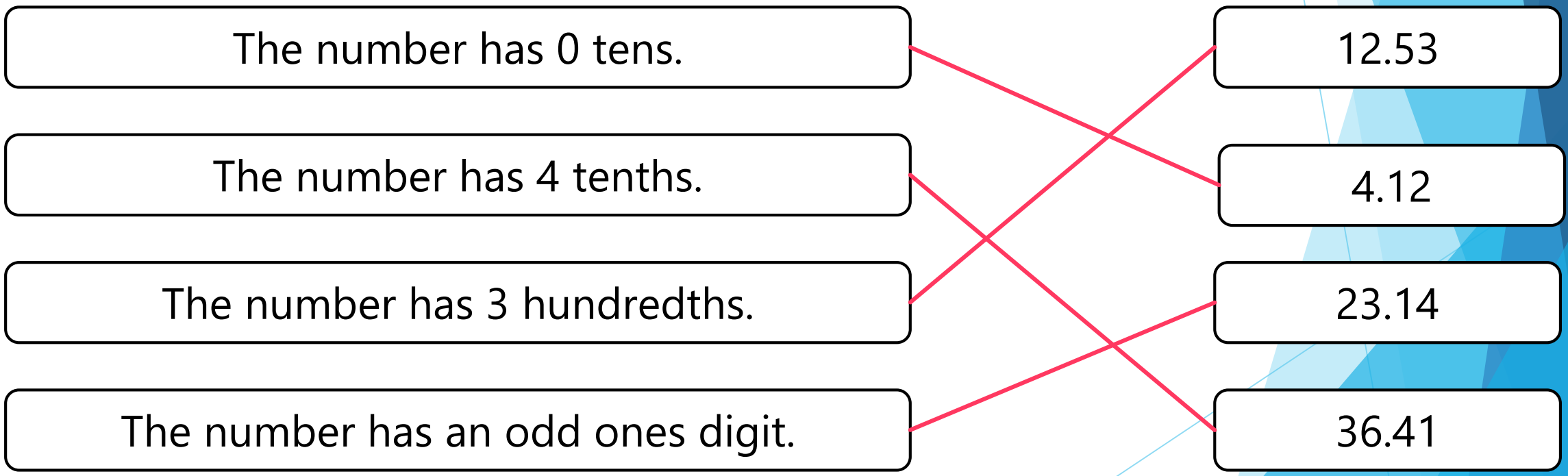
TALKING TIME

Match the clue to is number.

The number has 0 tens.	12.53
The number has 4 tenths.	4.12
The number has 3 hundredths.	23.14
The number has an odd ones digit.	36.41

TALKING TIME

Match the clue to is number.



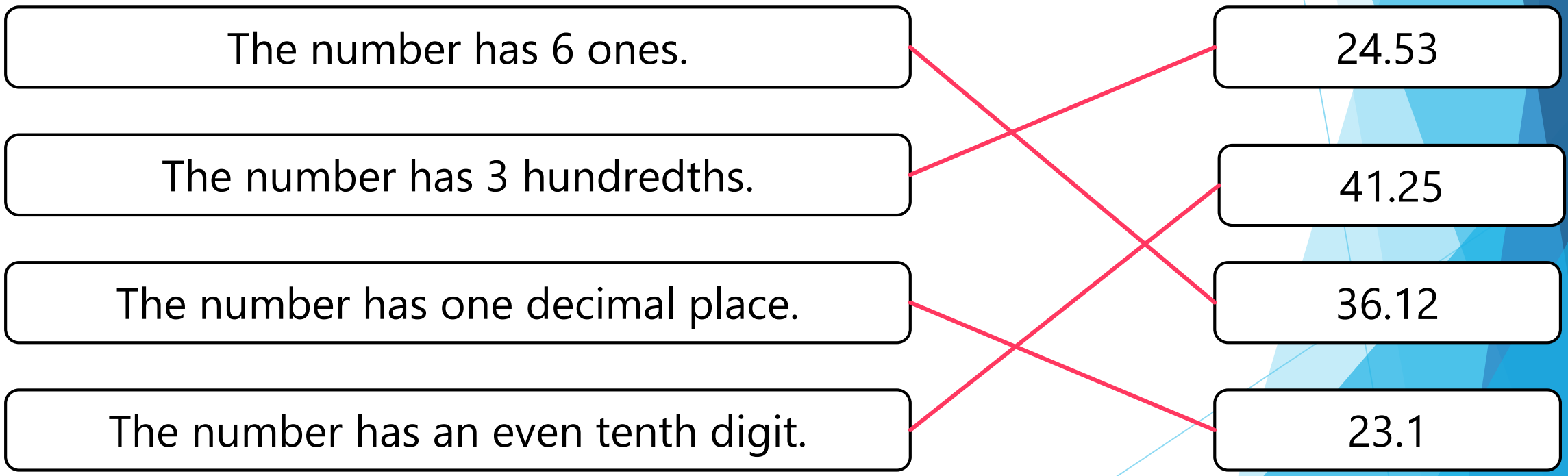
ACTIVITY 4

Match the clue to is number.

The number has 6 ones.	24.53
The number has 3 hundredths.	41.25
The number has one decimal place.	36.12
The number has an even tenth digit.	23.1

ACTIVITY 4

Match the clue to is number.

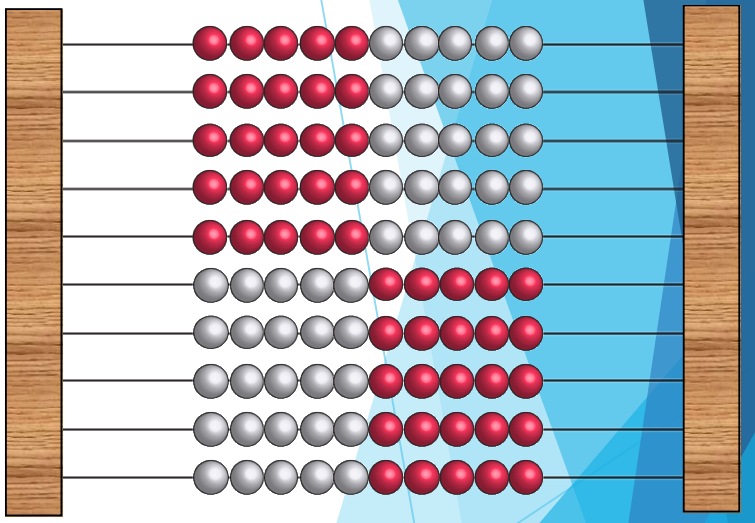


ACTIVITY 5

James says, “If a Rekenrek represents one whole, then each row of beads is equal to one hundredth.”

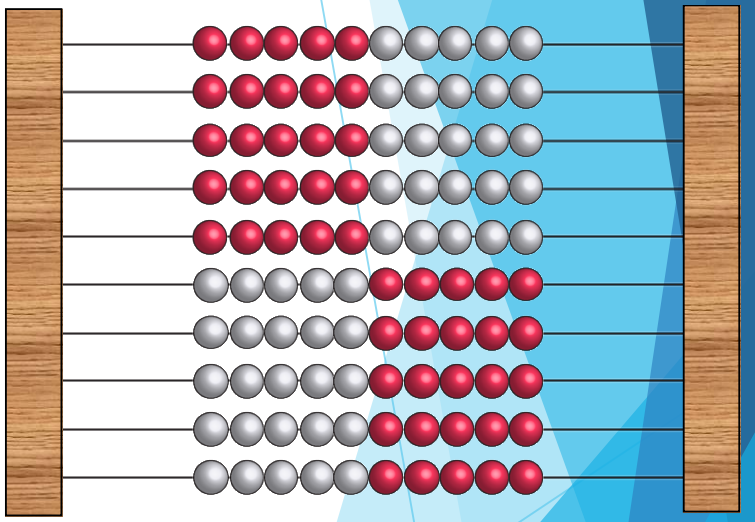
Do you agree?

Explain your answer.



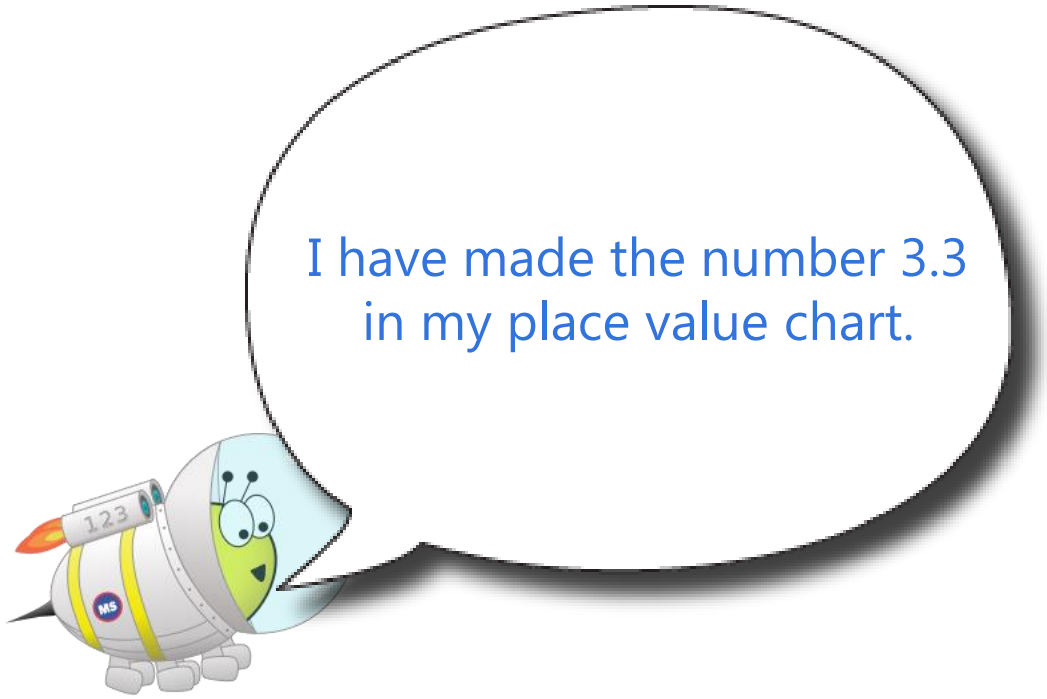
ACTIVITY 5

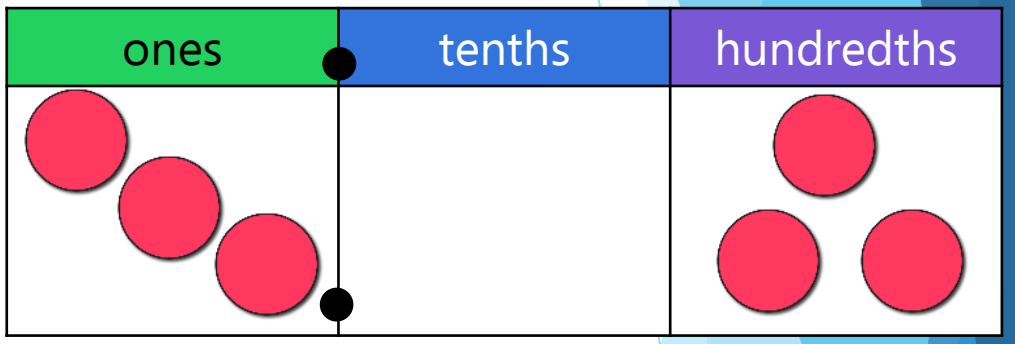
James says, “If a Rekenrek represents one whole, then each row of beads is equal to one hundredth.”



No, I do not agree.
A Rekenrek, like the one shown, has 100 beads.
So, each bead is worth one hundredth (or 0.01) and each row of beads is worth ten hundredths or a tenth, which is 0.1 as a decimal.

EVALUATION

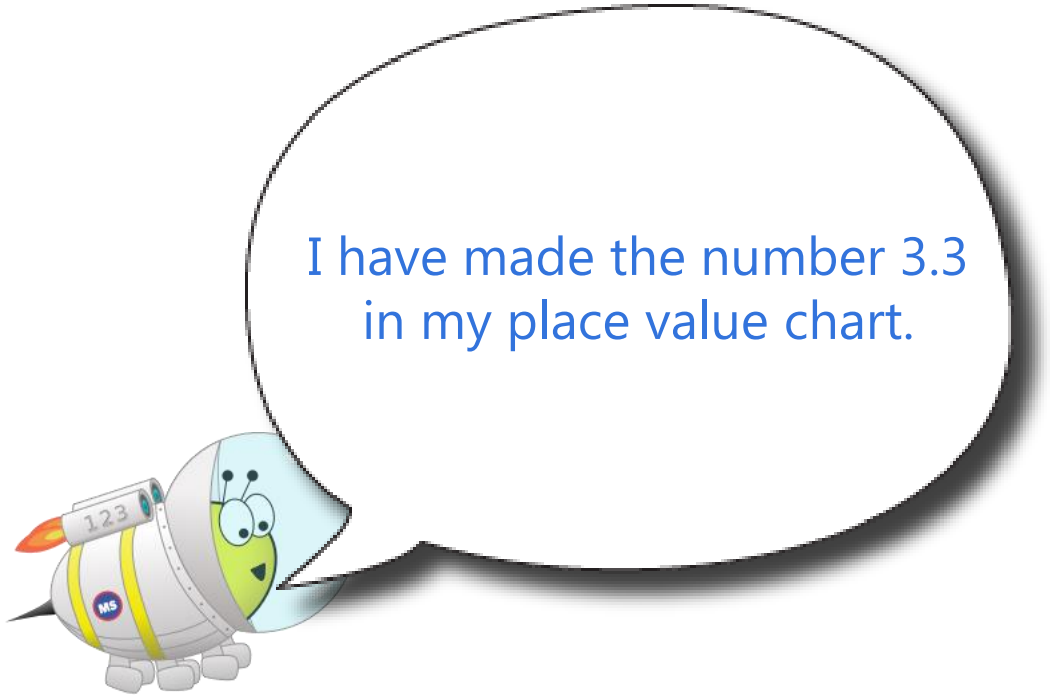


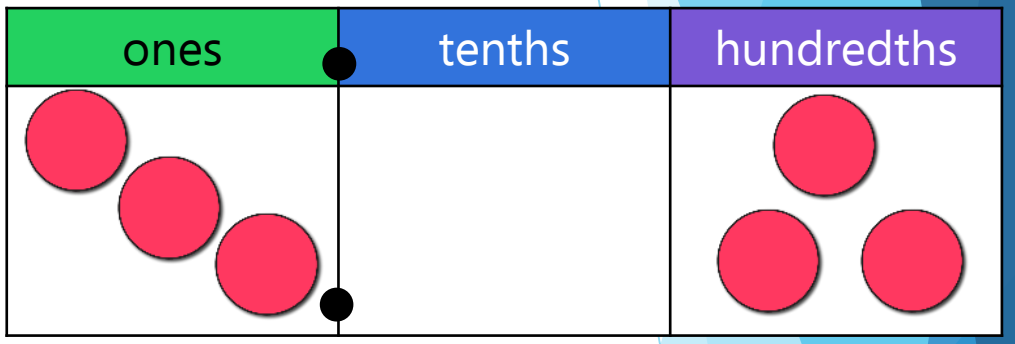


Do you agree with Astrobee's statement?

Explain your answer fully.

EVALUATION





No, I do not agree. Astrobee has three counters in the ones place and three counters in the hundredths place. So, Astrobee has made the number 3.03.