

DECIMALS – DAY 1

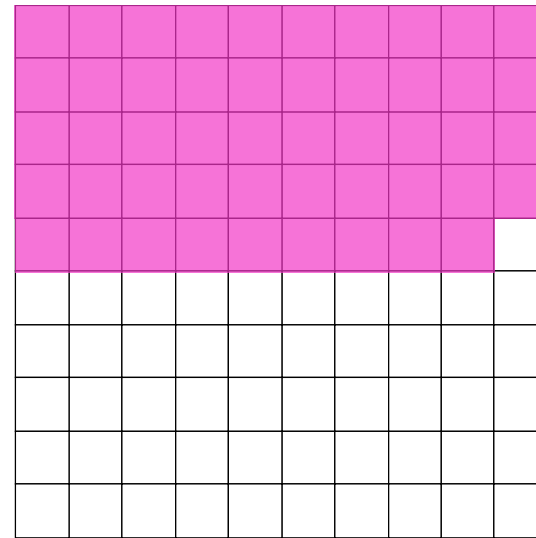
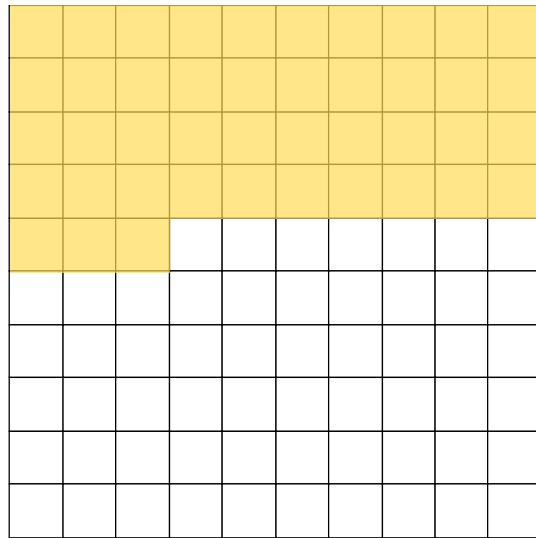
To be able to use tenths and hundredths to make a whole.

SUCCESS CRITERIA

- ✓ I can use mathematical equipment and pictorial representations, such as hundred grids, to help me make one whole from various combinations of tenths and hundredths
- ✓ I can explain my reasoning when using mathematical equipment and pictorial representations, such as hundred grids, to help me make one whole from various combinations of tenths and hundredths

STARTER

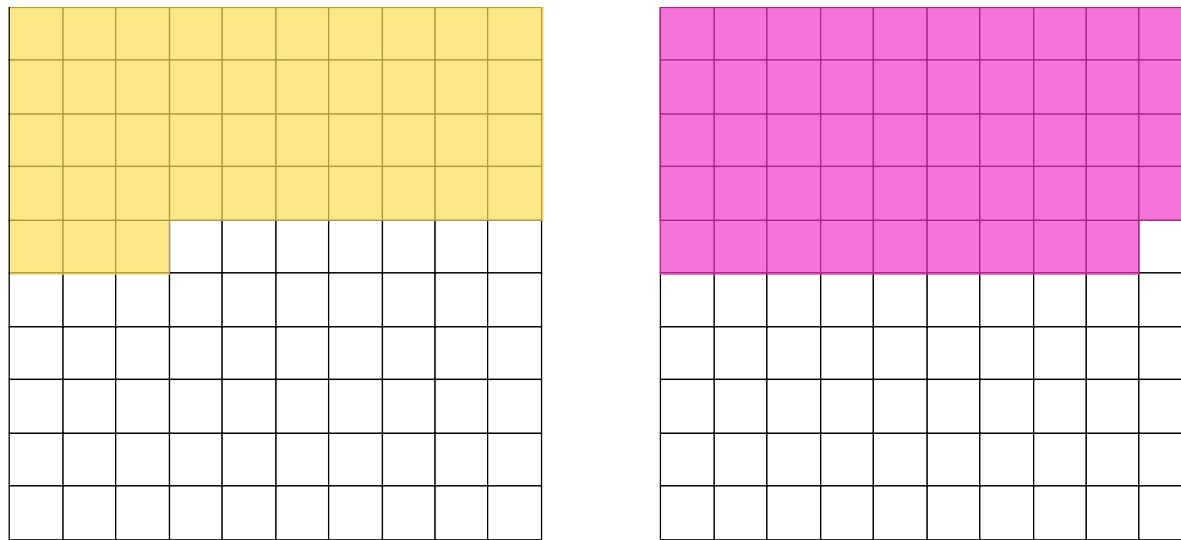
Thinking about tenths and hundredths, what's the same? What's different?



Explain your answer.

STARTER

Thinking about tenths and hundredths, what's the same? What's different?



Both have 4 tenths shaded in. The yellow grid shows 0.43. The pink shows 0.49.

TALKING TIME

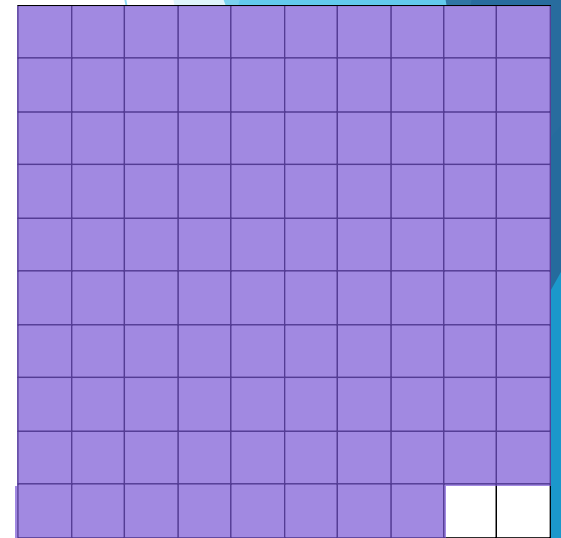
Look at the hundred grid.

How many hundredths have been shaded in?

How many more hundredths would need to be shaded in to make one whole?

Complete the sentence below:

___ hundredths + ___ hundredths = 1 whole



TALKING TIME

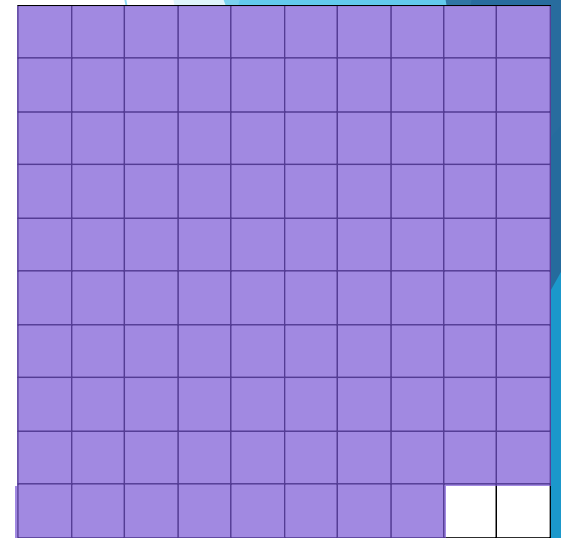
Look at the hundred grid.

How many hundredths have been shaded in?

How many more hundredths would need to be shaded in to make one whole?

Complete the sentence below:

98 hundredths + 2 hundredths = 1 whole



TALKING TIME

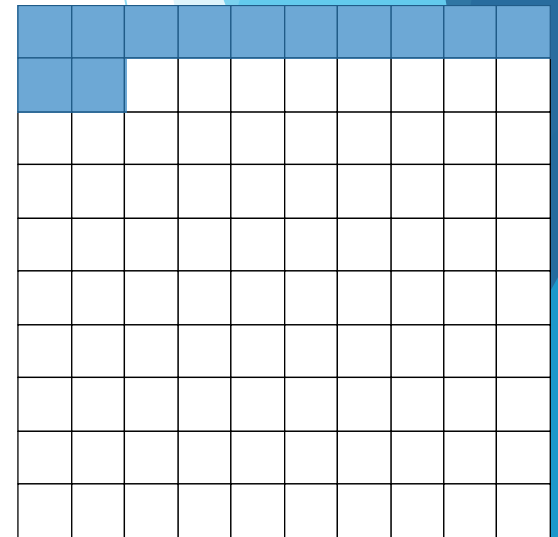
Look at the hundred grid.

How many hundredths have been shaded in?

How many more hundredths would need to be shaded in to make one whole?

Complete the sentence below:

___ hundredths + ___ hundredths = 1 whole



TALKING TIME

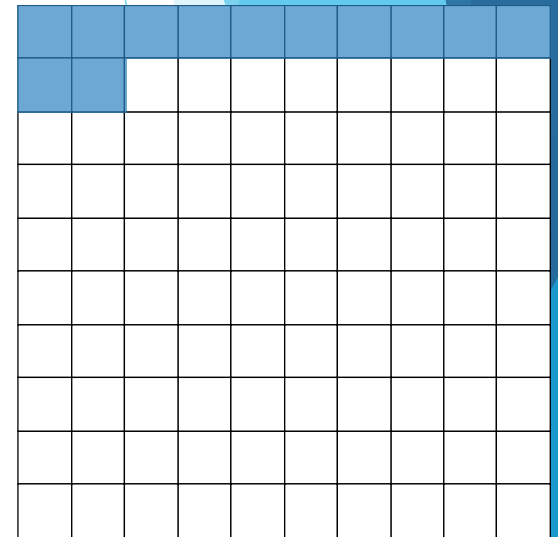
Look at the hundred grid.

How many hundredths have been shaded in?

How many more hundredths would need to be shaded in to make one whole?

Complete the sentence below:

12 hundredths + 88 hundredths = 1 whole



TALKING TIME

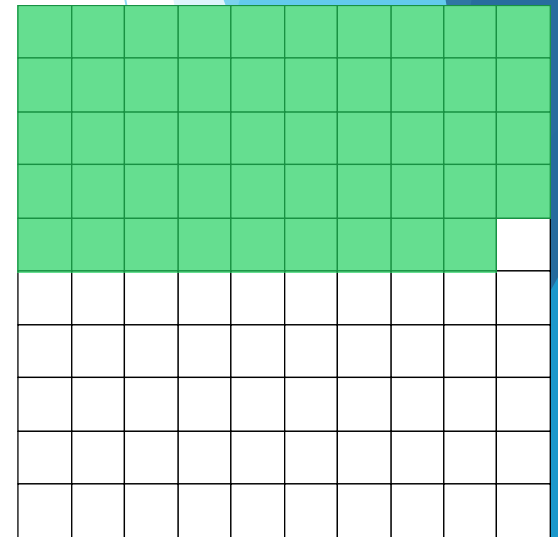
Look at the hundred grid.

How many hundredths have been shaded in?

How many more hundredths would need to be shaded in to make one whole?

Complete the sentence below:

___ hundredths + ___ hundredths = 1 whole



TALKING TIME

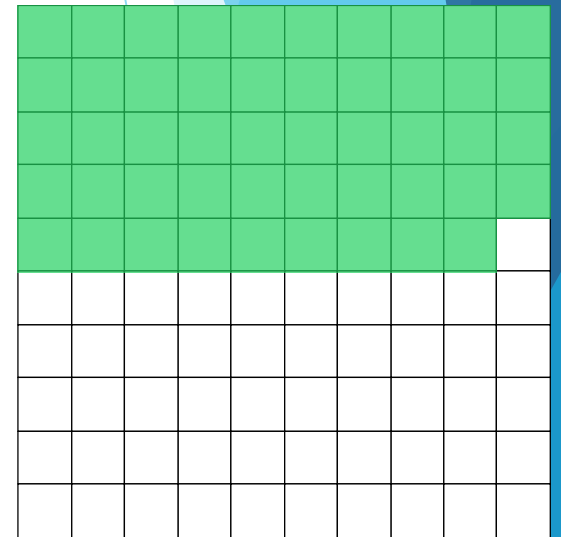
Look at the hundred grid.

How many hundredths have been shaded in?

How many more hundredths would need to be shaded in to make one whole?

Complete the sentence below:

49 hundredths + 51 hundredths = 1 whole



TALKING TIME

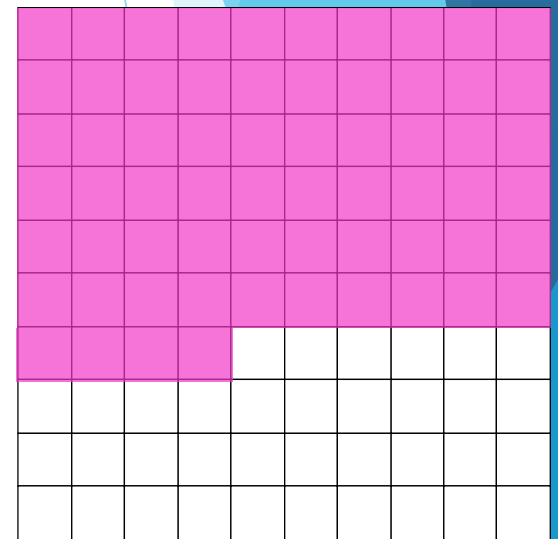
Look at the hundred grid.

How many hundredths have been shaded in?

How many more hundredths would need to be shaded in to make one whole?

Complete the sentence below:

___ hundredths + ___ hundredths = 1 whole



TALKING TIME

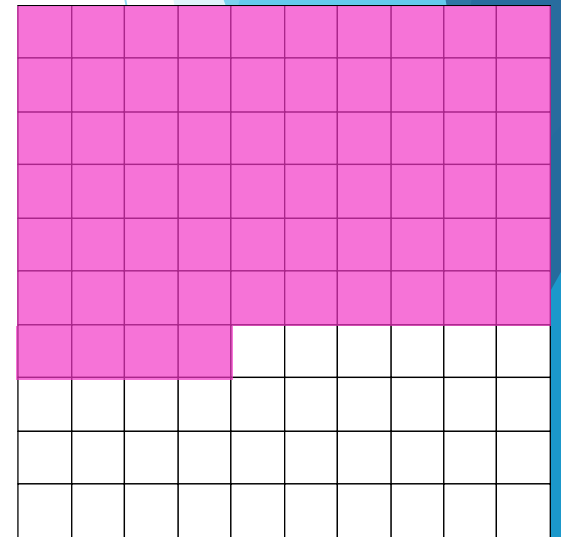
Look at the hundred grid.

How many hundredths have been shaded in?

How many more hundredths would need to be shaded in to make one whole?

Complete the sentence below:

64 hundredths + 36 hundredths = 1 whole



ACTIVITY 1

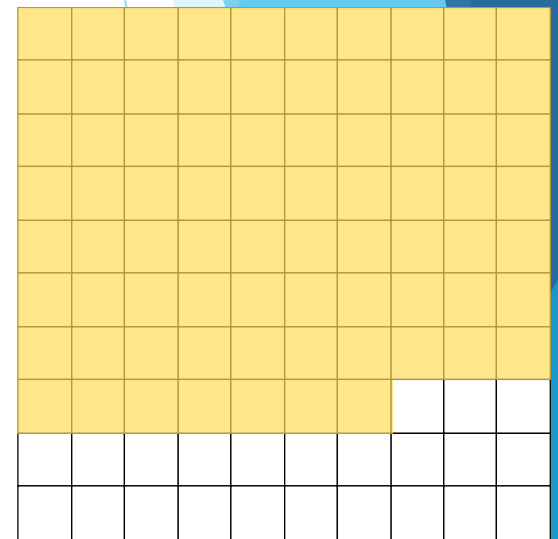
Look at the hundred grid.

How many hundredths have been shaded in?

How many more hundredths would need to be shaded in to make one whole?

Complete the sentence below:

___ hundredths + ___ hundredths = 1 whole



ACTIVITY 1

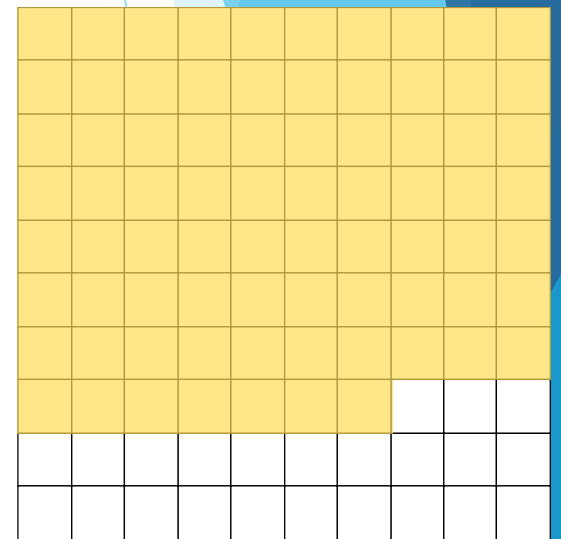
Look at the hundred grid.

How many hundredths have been shaded in?

How many more hundredths would need to be shaded in to make one whole?

Complete the sentence below:

77 hundredths + 23 hundredths = 1 whole



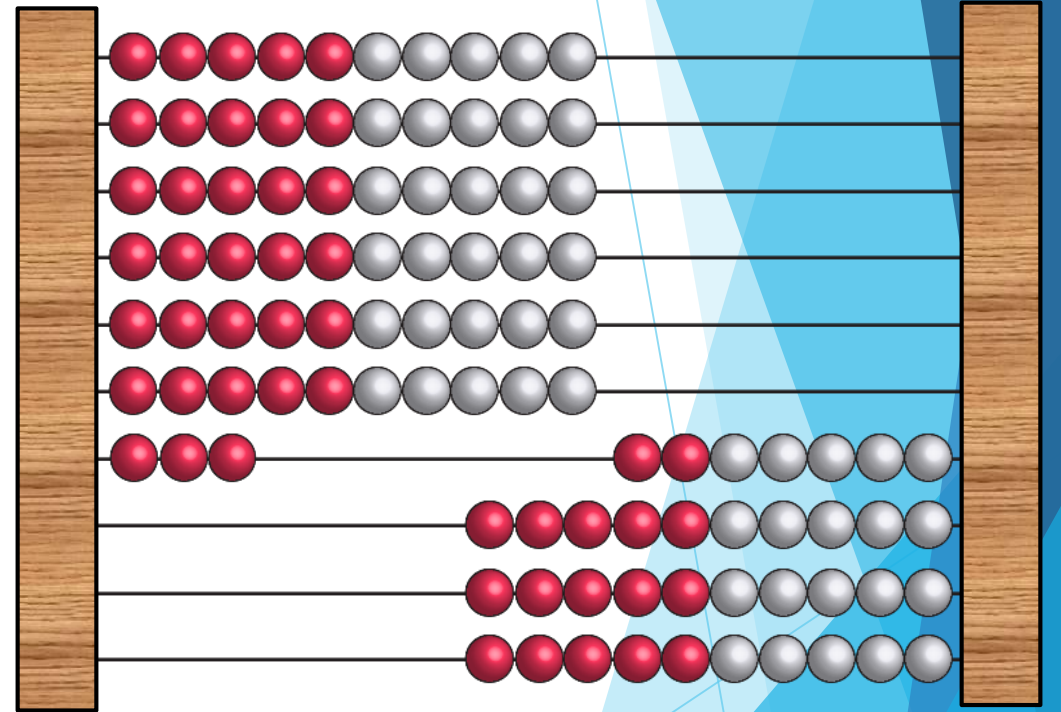
TALKING TIME

Look at the Rekenrek provided.
There are 100 beads.
Each bead is worth 1 hundredth of a whole.
Complete the sentences:

There are ____ beads on the left.

There are ____ beads on the right.

$$0.\underline{\quad} + 0.\underline{\quad} = 1$$



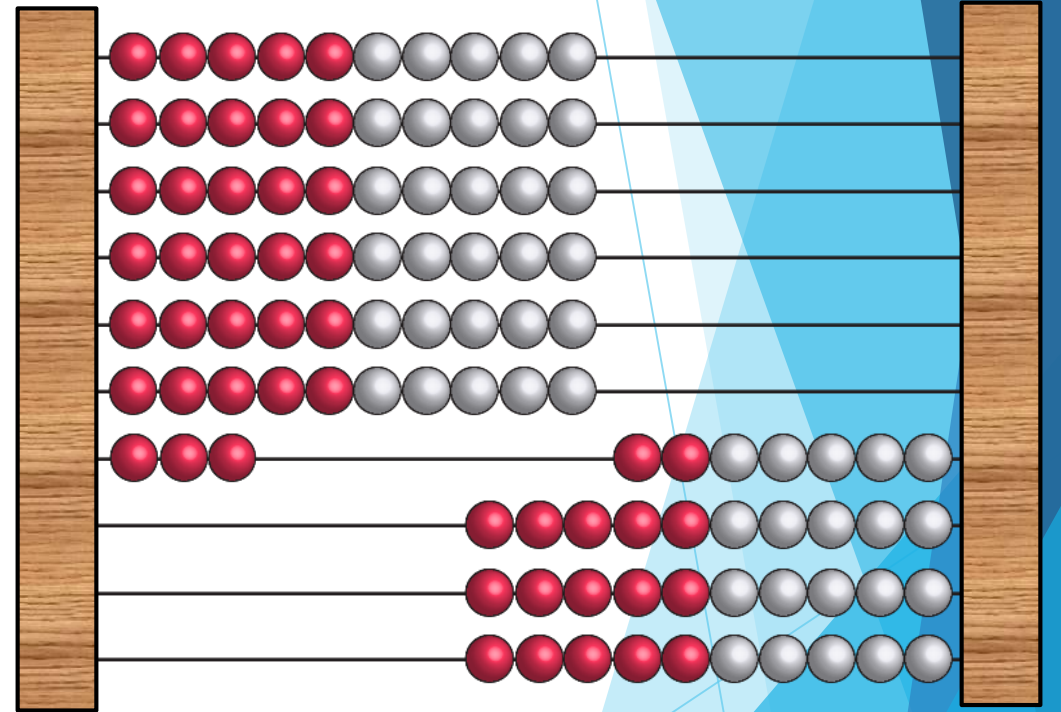
TALKING TIME

Look at the Rekenrek provided.
There are 100 beads.
Each bead is worth 1 hundredth of a whole.
Complete the sentences:

There are 63 beads on the left.

There are 37 beads on the right.

$$0.\underline{63} + 0.\underline{37} = 1$$



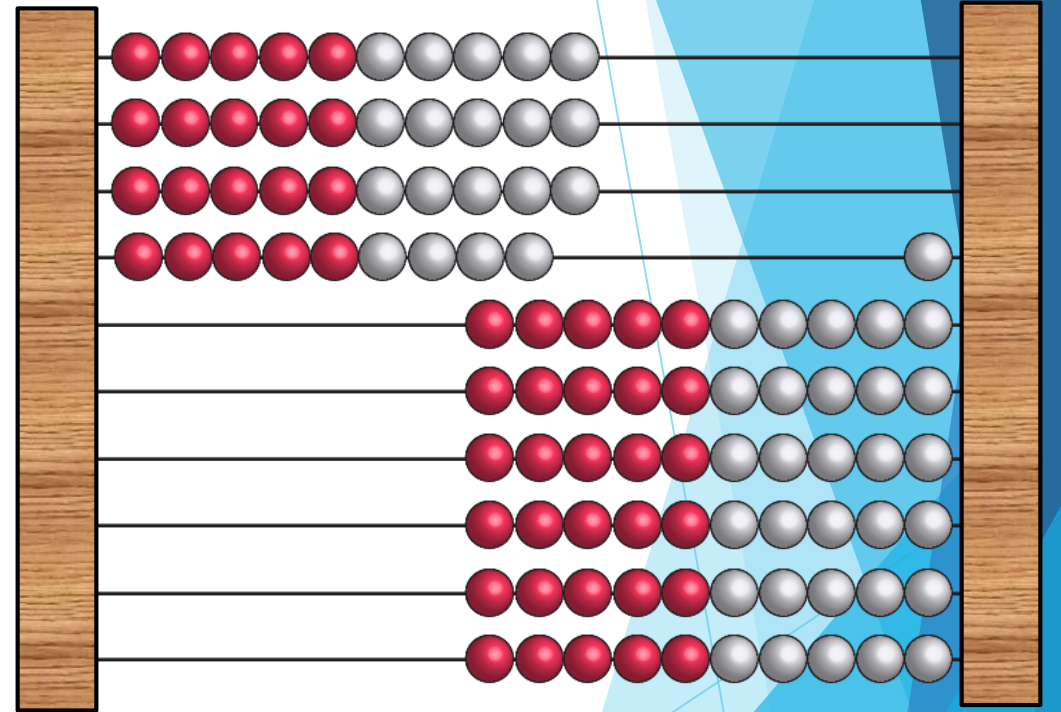
TALKING TIME

Look at the Rekenrek provided.
There are 100 beads.
Each bead is worth 1 hundredth of a whole.
Complete the sentences:

There are ____ beads on the left.

There are ____ beads on the right.

$$0.\underline{\quad} + 0.\underline{\quad} = 1$$



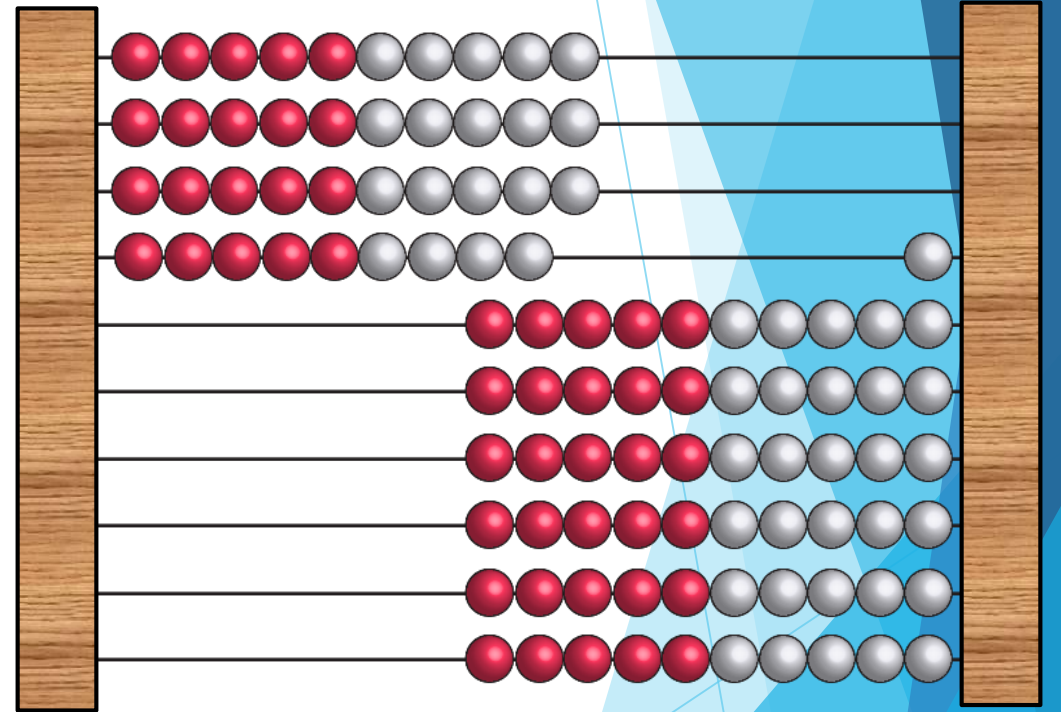
TALKING TIME

Look at the Rekenrek provided.
There are 100 beads.
Each bead is worth 1 hundredth of a whole.
Complete the sentences:

There are 39 beads on the left.

There are 61 beads on the right.

$$0.\underline{39} + 0.\underline{61} = 1$$



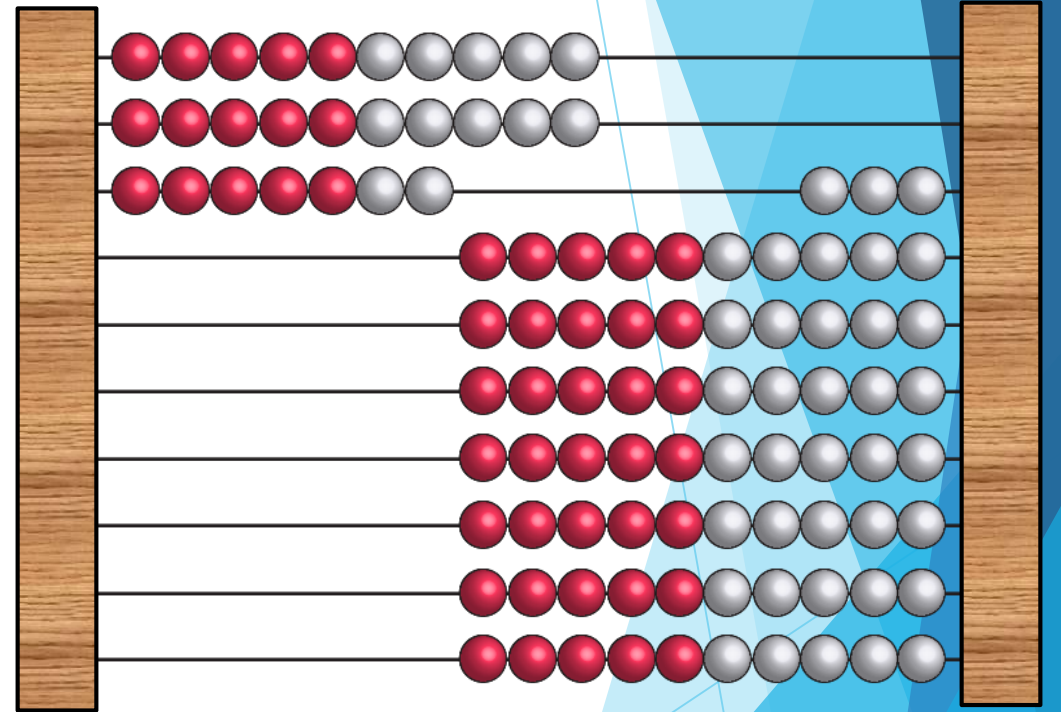
TALKING TIME

Look at the Rekenrek provided.
There are 100 beads.
Each bead is worth 1 hundredth of a whole.
Complete the sentences:

There are ____ beads on the left.

There are ____ beads on the right.

$$0.\underline{\quad} + 0.\underline{\quad} = 1$$



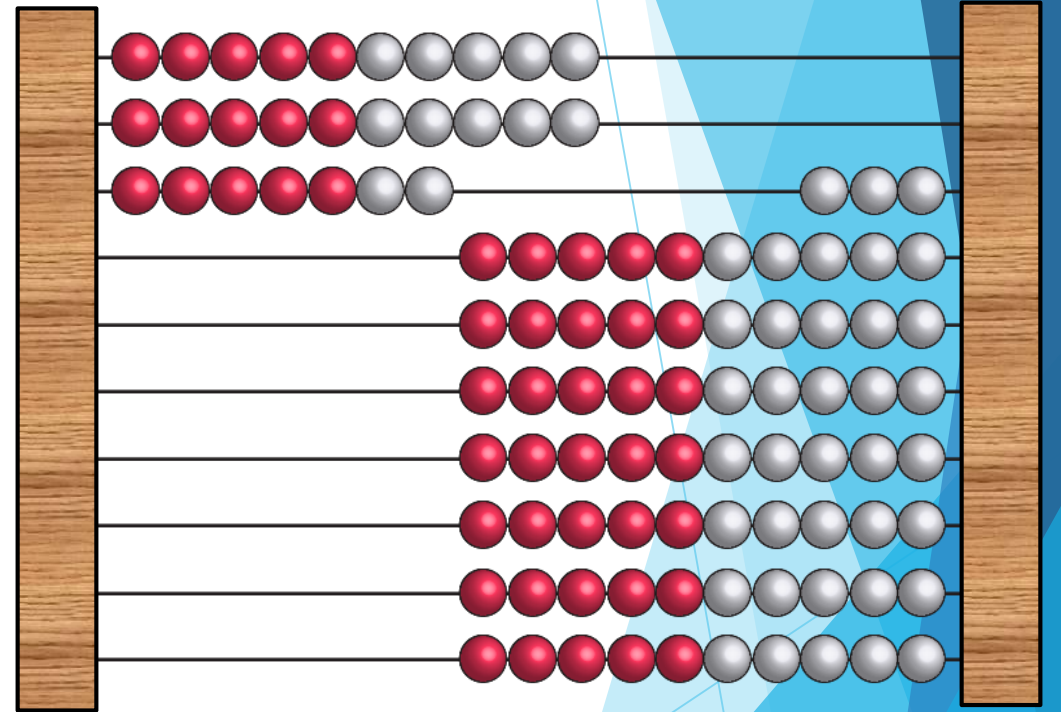
TALKING TIME

Look at the Rekenrek provided.
There are 100 beads.
Each bead is worth 1 hundredth of a whole.
Complete the sentences:

There are 27 beads on the left.

There are 73 beads on the right.

$$0.\underline{27} + 0.\underline{73} = 1$$



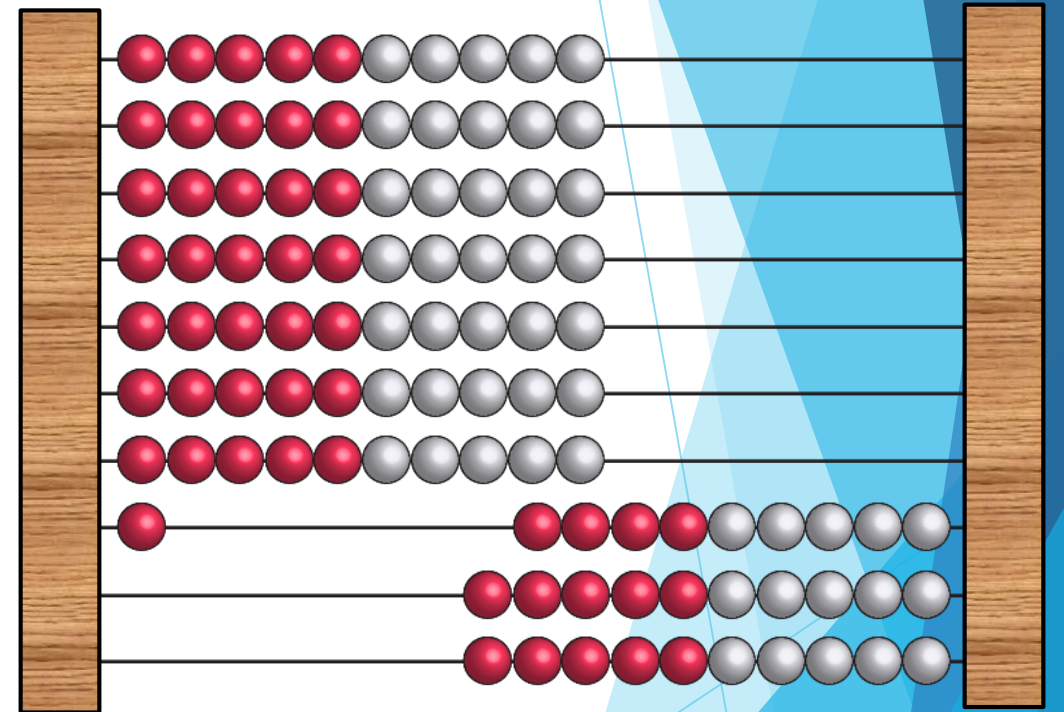
ACTIVITY 2

Look at the Rekenrek provided.
There are 100 beads.
Each bead is worth 1 hundredth of a whole.
Complete the sentences:

There are ____ beads on the left.

There are ____ beads on the right.

$$0.\underline{\quad} + 0.\underline{\quad} = 1$$



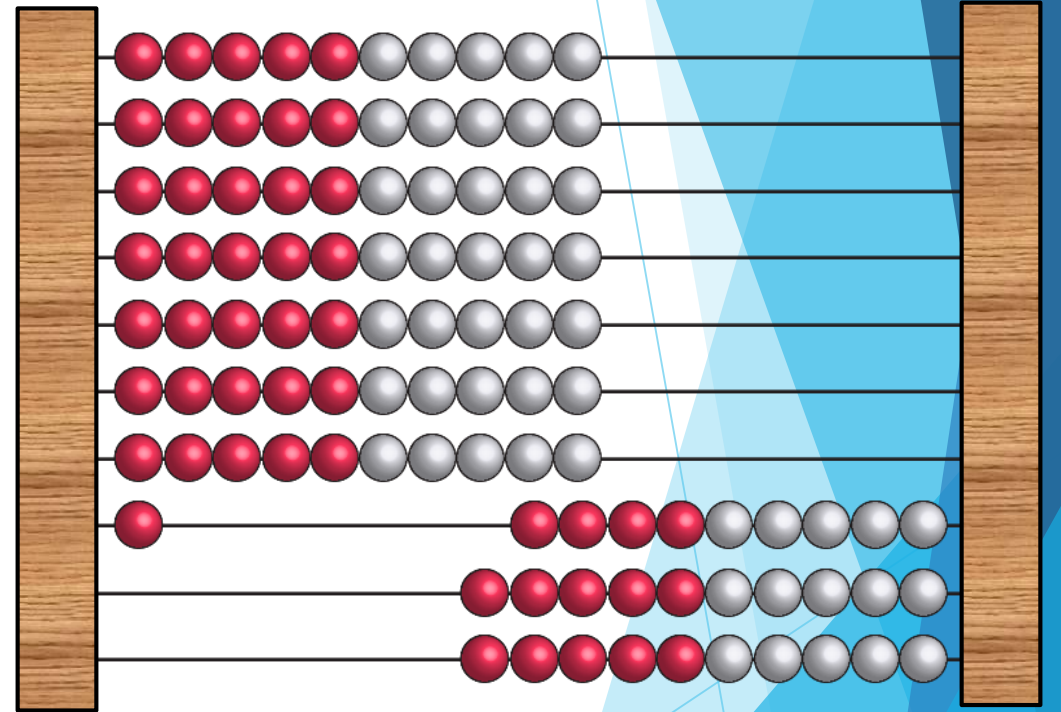
ACTIVITY 2

Look at the Rekenrek provided.
There are 100 beads.
Each bead is worth 1 hundredth of a whole.
Complete the sentences:

There are 71 beads on the left.

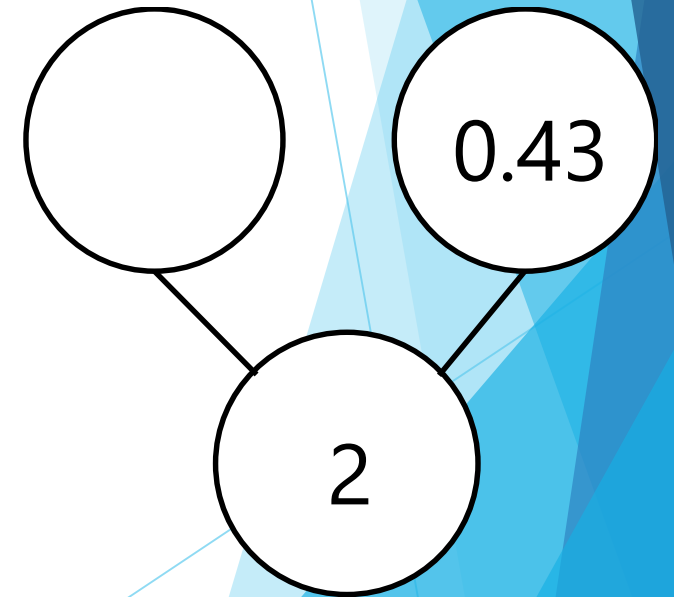
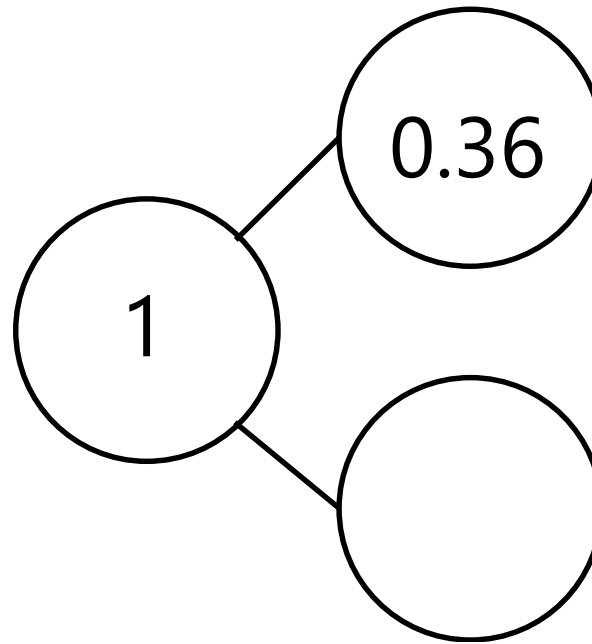
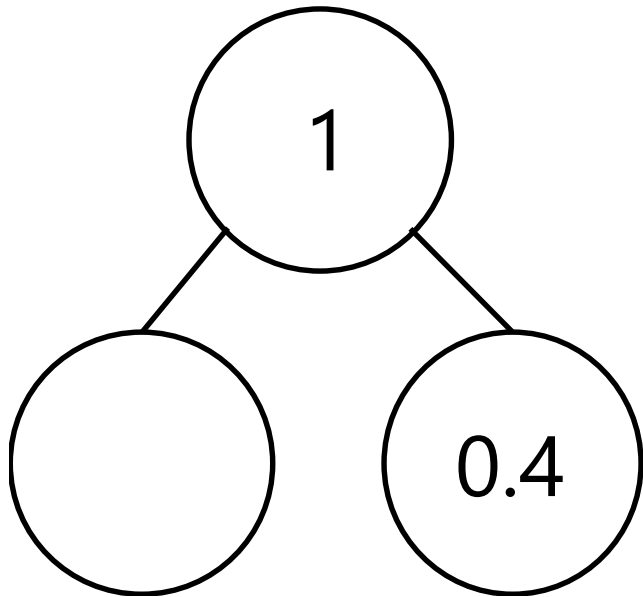
There are 29 beads on the right.

$$0.\underline{71} + 0.\underline{29} = 1$$



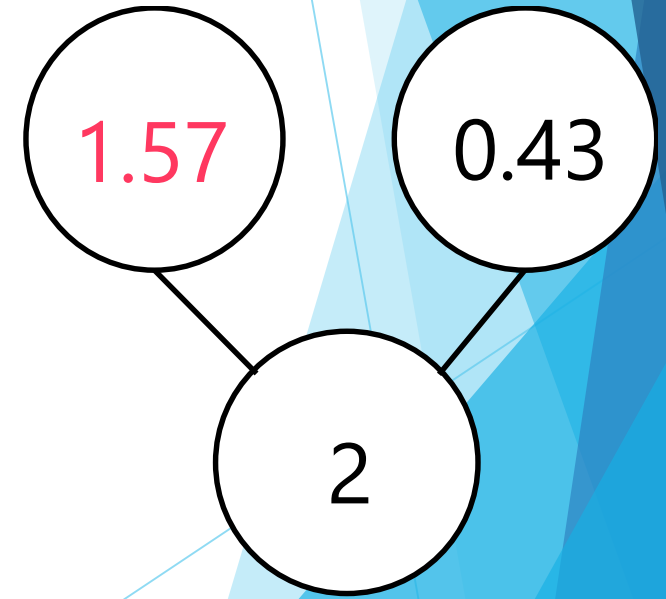
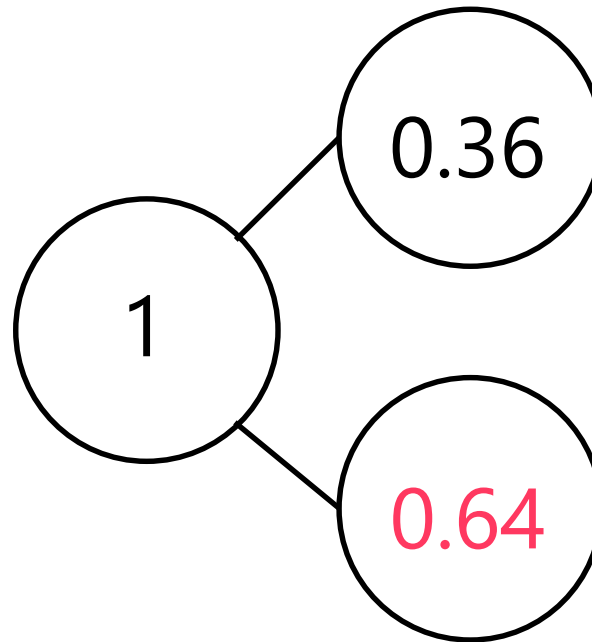
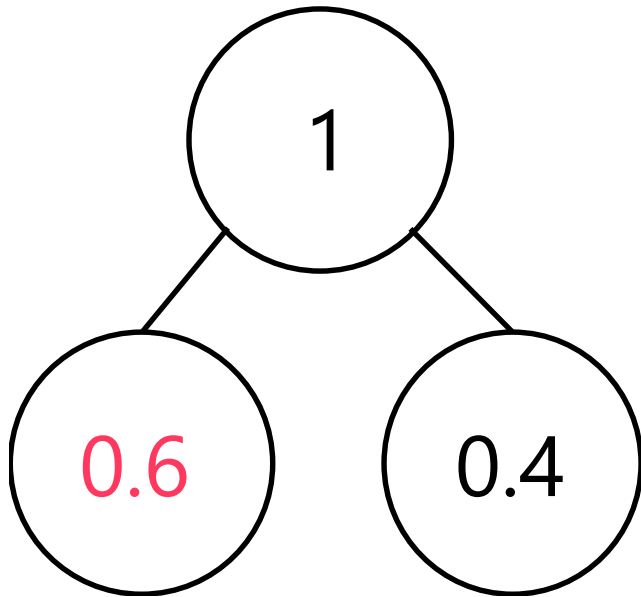
TALKING TIME

Complete the part-whole models below.



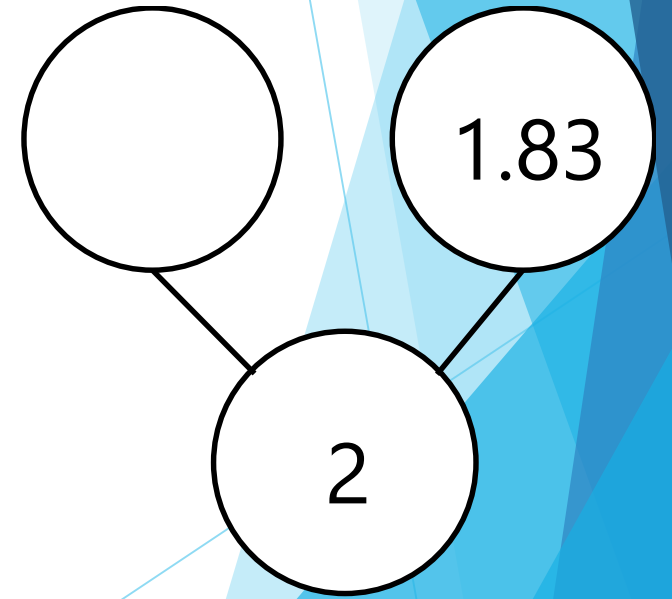
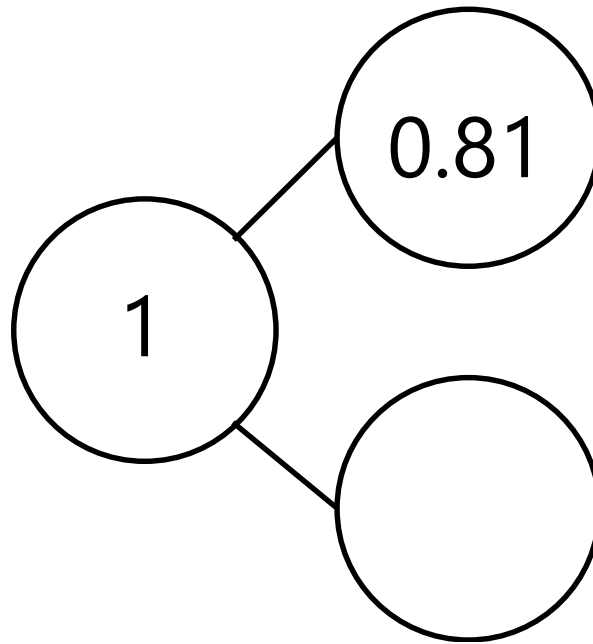
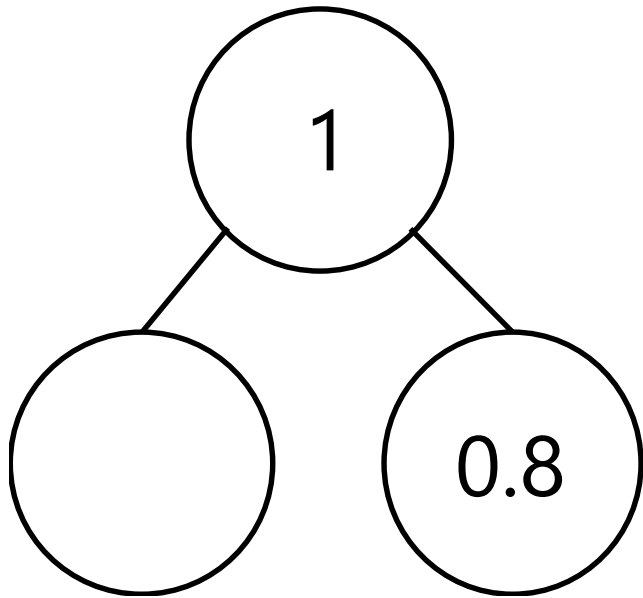
TALKING TIME

Complete the part-whole models below.



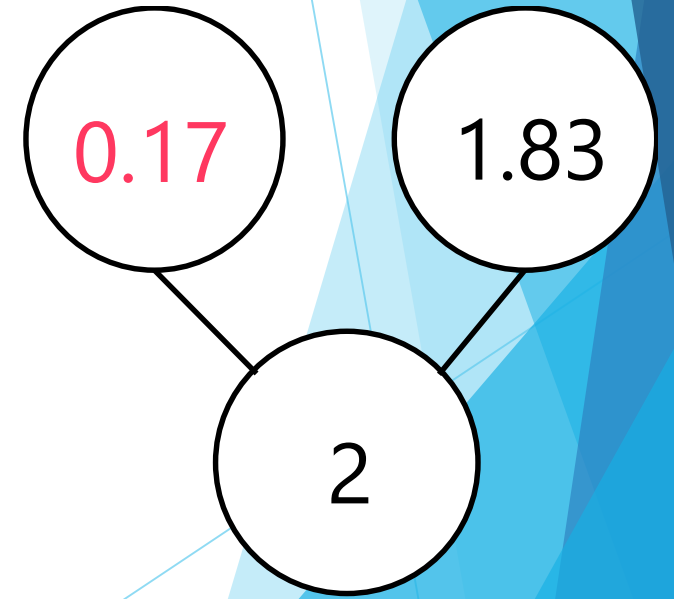
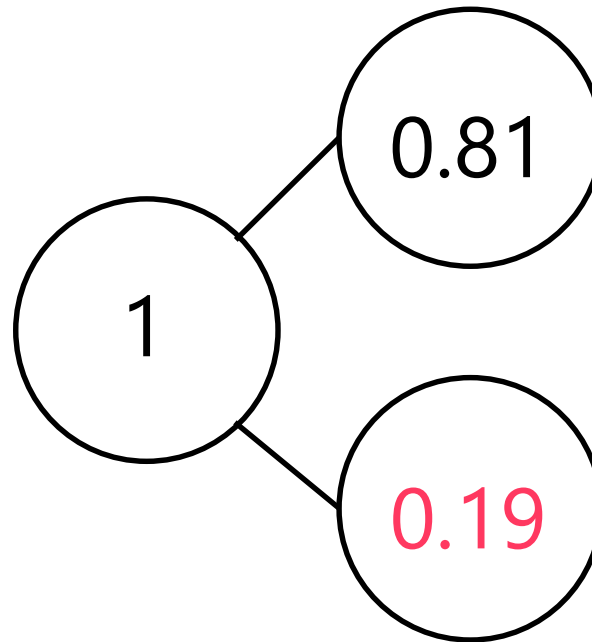
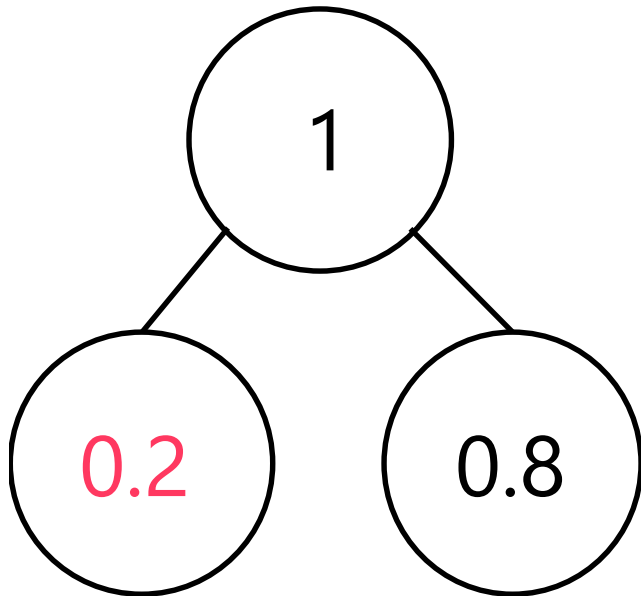
TALKING TIME

Complete the part-whole models below.



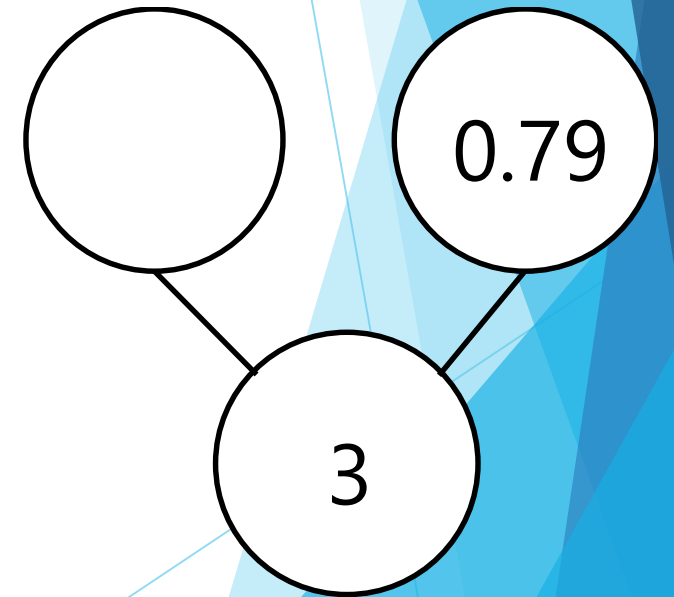
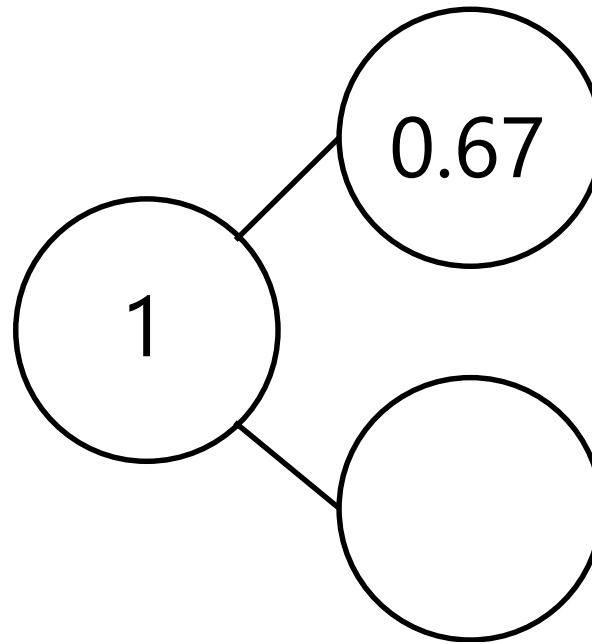
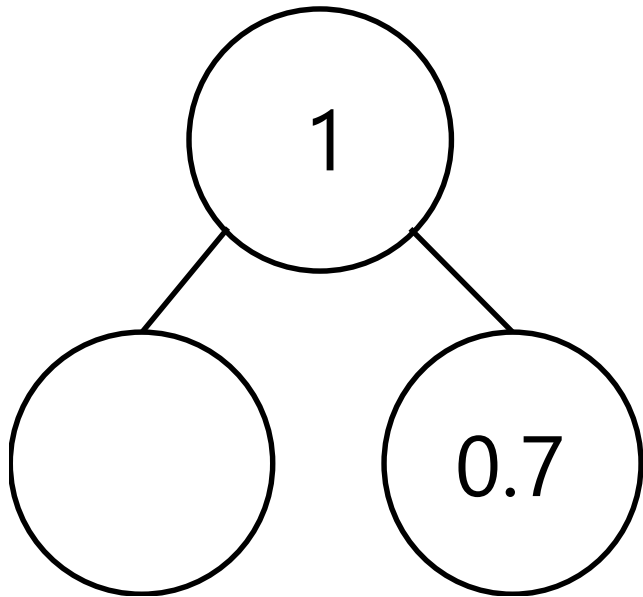
TALKING TIME

Complete the part-whole models below.



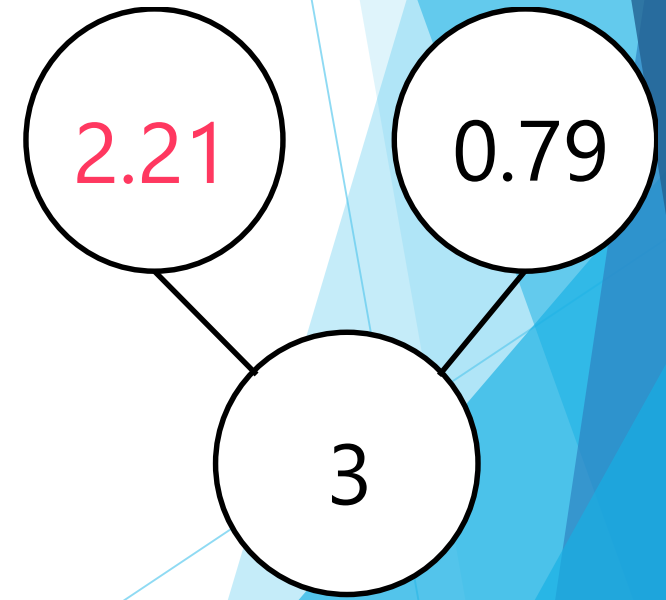
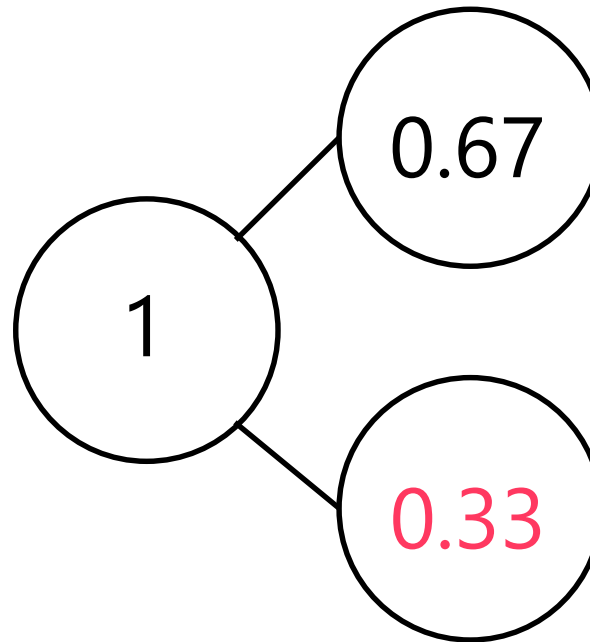
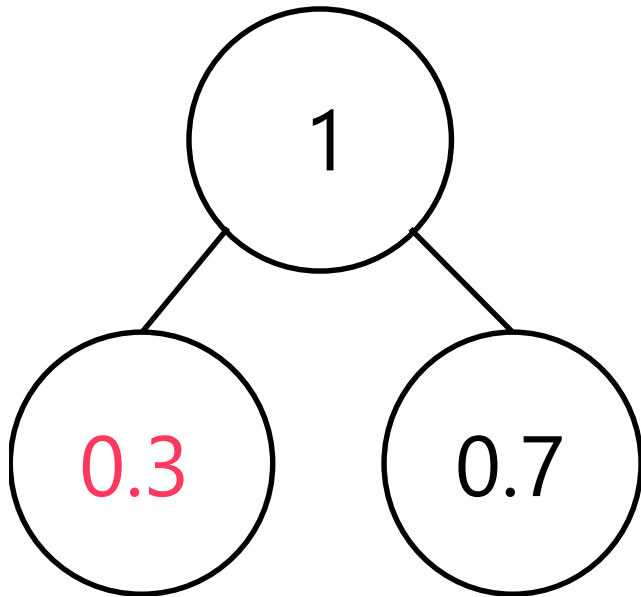
ACTIVITY 3

Complete the part-whole models below.



ACTIVITY 3

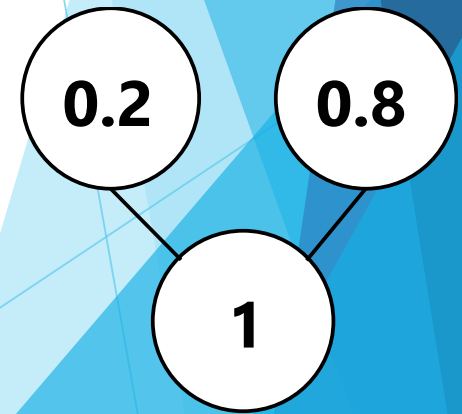
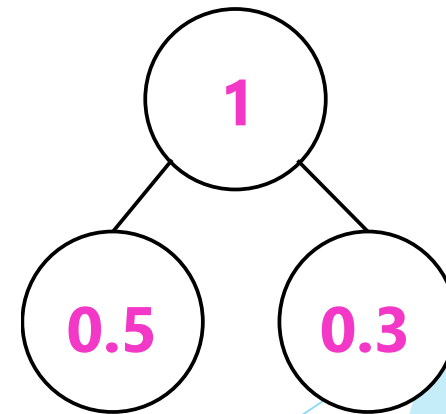
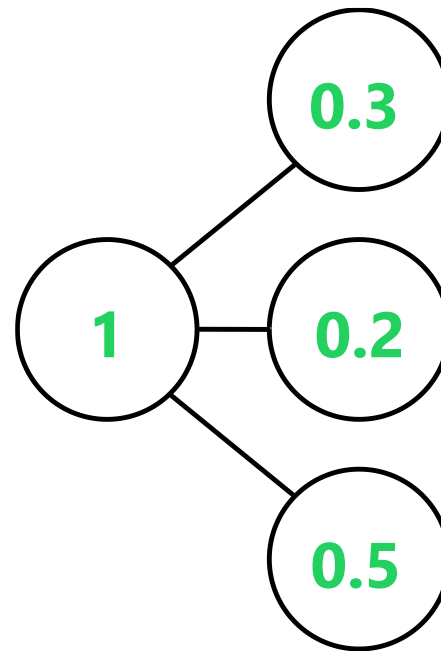
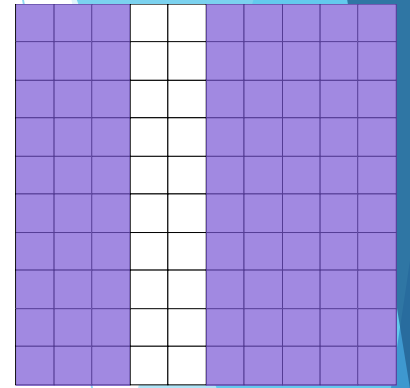
Complete the part-whole models below.



ACTIVITY 4

Which part-whole model doesn't match the hundred grid shown?

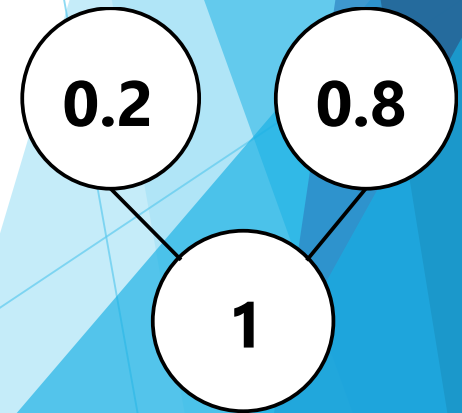
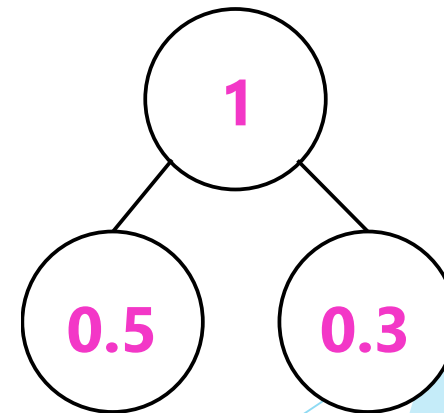
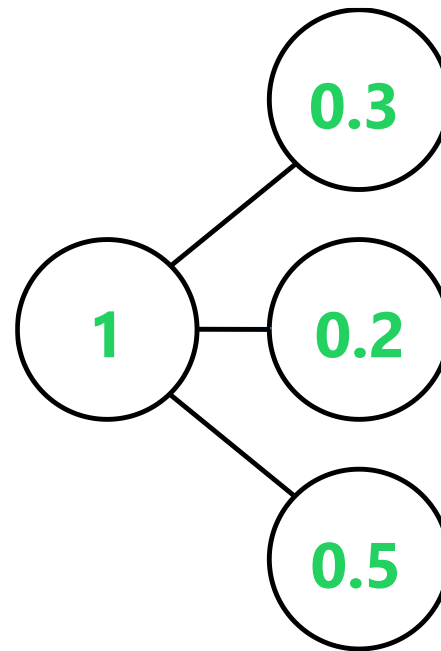
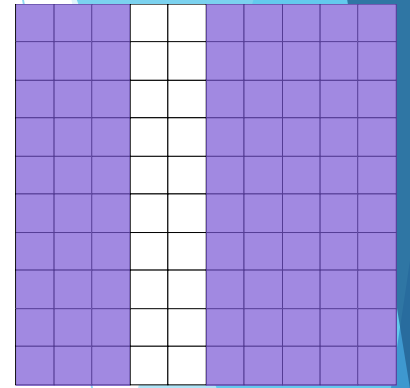
Explain your answer.



ACTIVITY 4

Which part-whole model doesn't match the hundred grid shown?

The purple part-whole model doesn't belong as 0.5 and 0.3 do not total 1, they make 0.8. The green and black part-whole models both make a sum of 1.



TALKING TIME

Two equal lengths of wood are 0.64 m long.

Combined with a third equal length of wood, would it be longer or shorter than 1 m?
Explain your answer.

TALKING TIME

Two equal lengths of wood are 0.64 m long.

Each length of wood is 0.32 m long, as $0.64 \div 2 = 0.32$.

So, three lengths of wood is less than 1 m, as $3 \times 0.32 = 0.96$ m

ACTIVITY 5

Three equal bags of sugar weigh 0.84 kg.

Will four bags of sugar weight more or less than 1 kg?

Explain your answer.

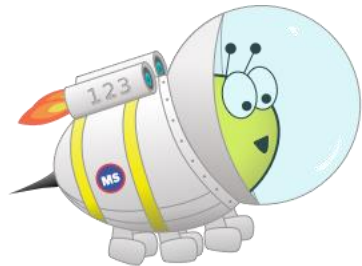
ACTIVITY 5

Three equal bags of sugar weigh 0.84 kg.

Each bag of sugar weighs 0.28 kg, as $0.84 \div 3 = 0.28$ kg.

So, four bags of sugar weighs more than 1 kg, as $4 \times 0.28 = 1.12$ kg

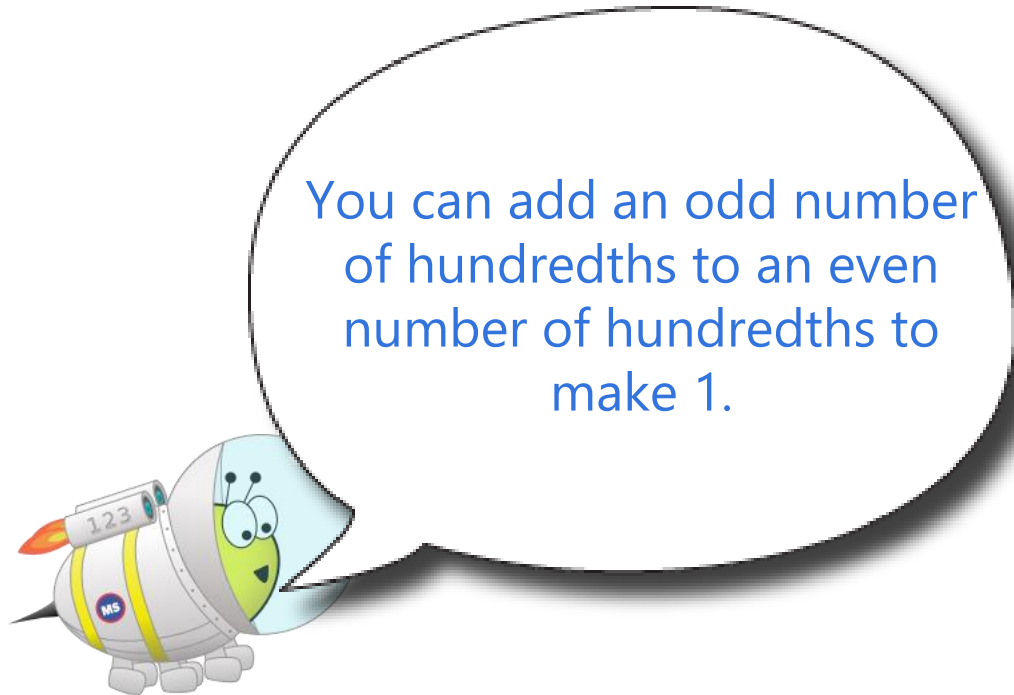
EVALUATION



You can add an odd number of hundredths to an even number of hundredths to make 1.

Is Astrobee's statement always, sometimes or never true?
Provide examples to help explain your answer.

EVALUATION



Astrobee's statement is never true. You can only add two odd number of hundredths or two even number of hundredths to make 1. Adding an odd and an even number of hundredths gets to 0.99 or 1.01 ($0.52 + 0.47 = 0.99...$).