

Year 4 Maths, 22/2/21

RECALL

- Can you say these fractions?

$$\frac{1}{10}$$

$$\frac{44}{100}$$

$$\frac{7}{10}$$

$$\frac{40}{100}$$

$$\frac{58}{100}$$

RECALL

- Can you say these fractions?

$$\frac{1}{10}$$

One tenth

$$\frac{44}{100}$$

Forty four
hundredths

$$\frac{7}{10}$$

Seven
tenths

$$\frac{40}{100}$$

Forty
hundredths

$$\frac{58}{100}$$

Fifty eight
hundredths

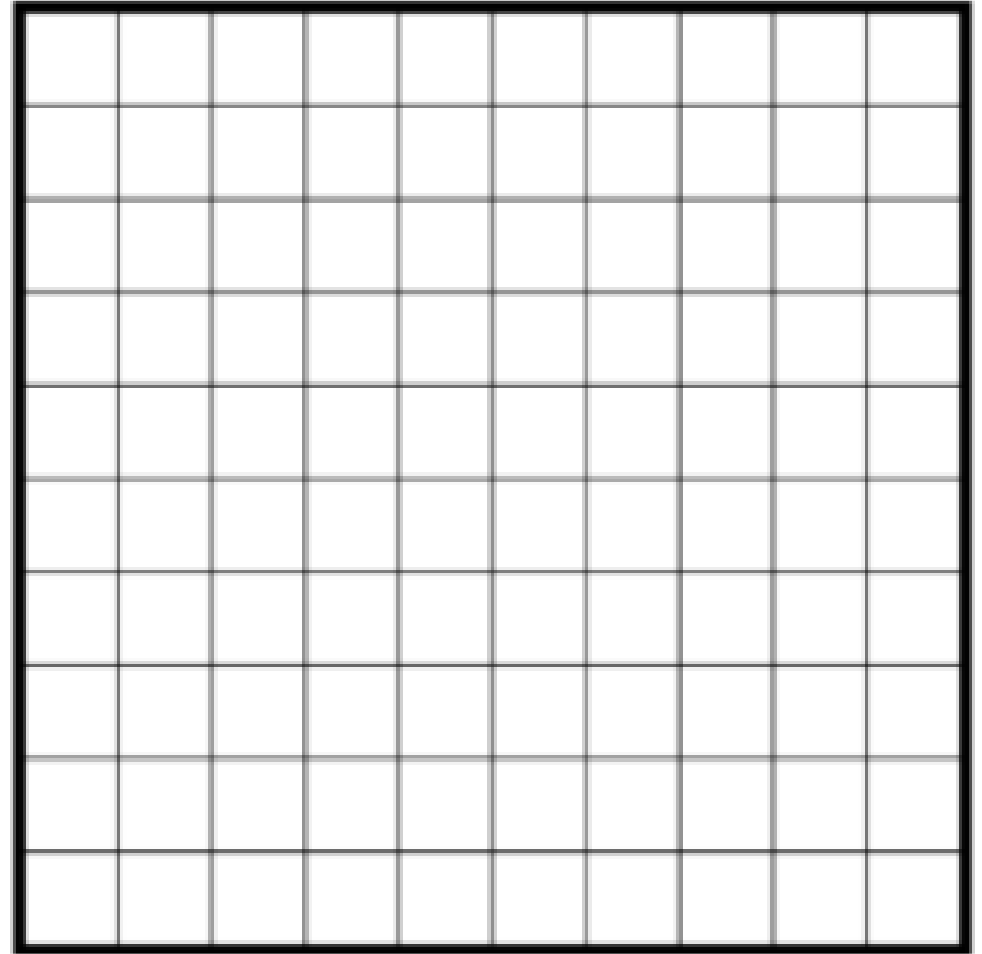
Learning objective: to recognise tenths and hundredths

- SOME WILL EVEN partition hundredths into hundredths and tenths
- SOME will convert hundredths to tenths
- MOST will recognise equivalence between tenths and hundredths
- ALL will identify tenths and hundredths using a hundred square

Guided practice

If each row is one row out of ten equal rows, what fraction does this represent?

If each square is one square out of one hundred equal squares, what fraction does this represent?



Guided practice **answers**

If each row is one row out of ten equal rows, what fraction does this represent?

One out of ten as a fraction is written $\frac{1}{10}$

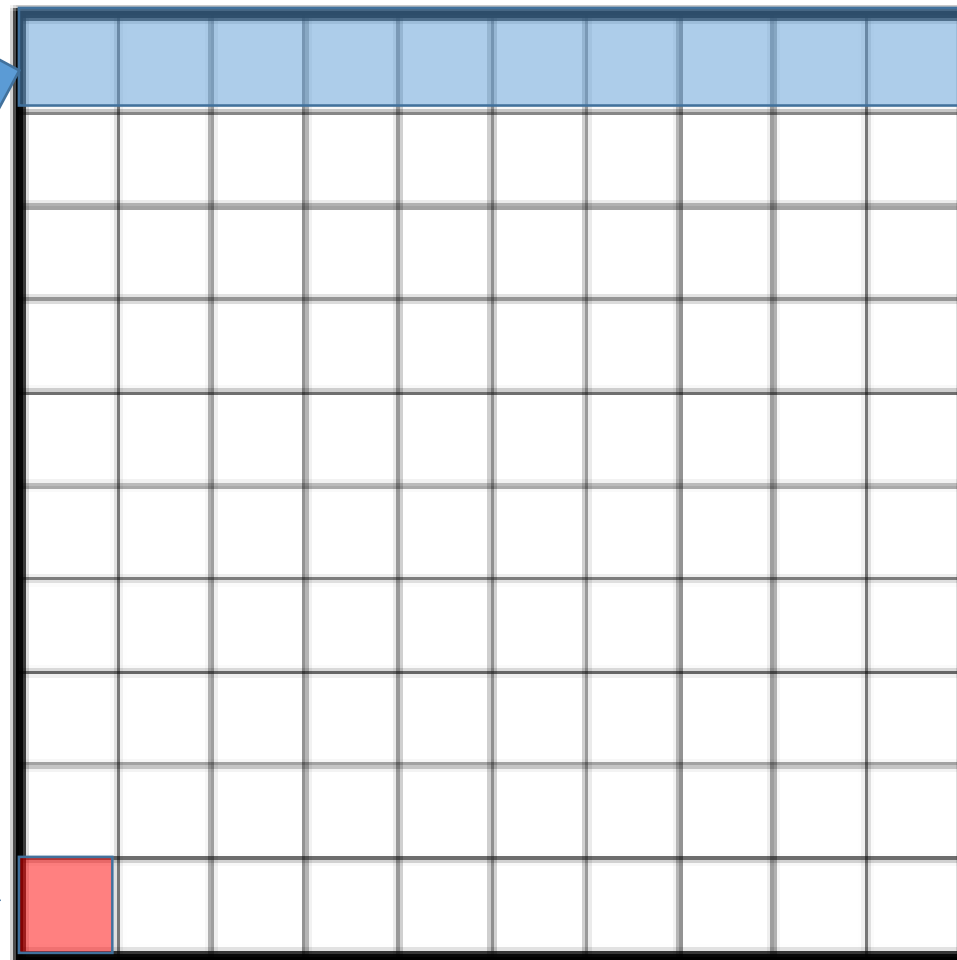
We call this fraction one tenth.

Each row is one tenth of the whole square, because there are ten rows.

If each square is one square out of one hundred equal squares, what fraction does this represent?

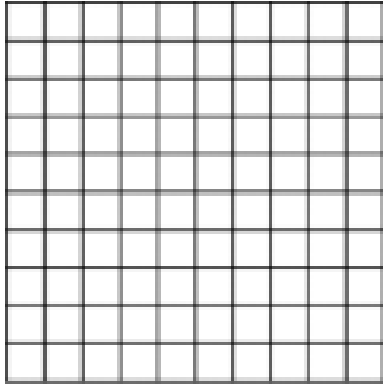
One out of one hundred as a fraction is written $\frac{1}{100}$

We call this fraction one hundredth. Each small square is one hundredth of the whole square.



INTELLIGENT PRACTICE

One chilli



Complete:

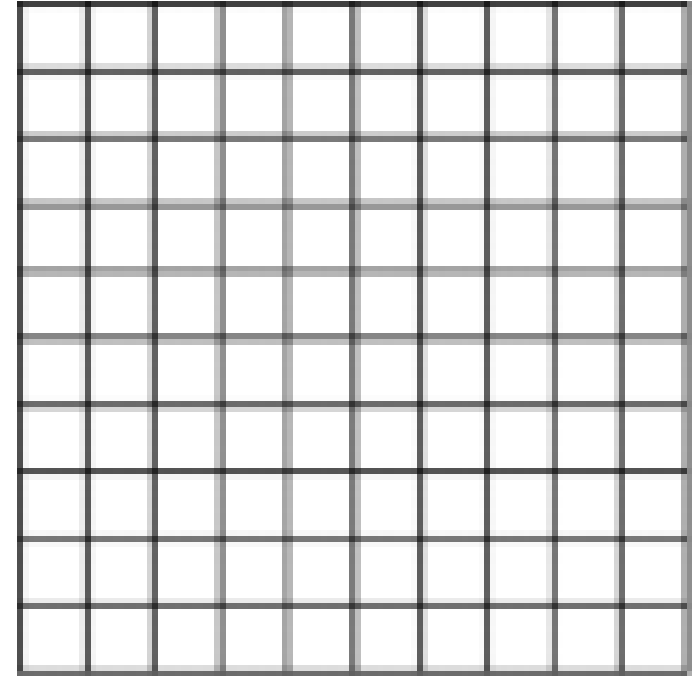
Each square is ___ out of ___ equal squares.

Each square represents $\frac{\square}{\square}$

Each row is ___ out of ___ equal rows.

Each row represents $\frac{\square}{\square}$

Two chillies



Shade three tenths of the hundred square.

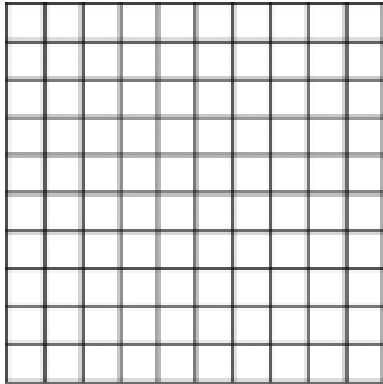
Shade another three hundredths in a different colour.

How many hundredths are the same as three tenths?

$$\frac{3}{10} = \frac{\square}{100}$$

INTELLIGENT PRACTICE answers

One chilli



Complete:

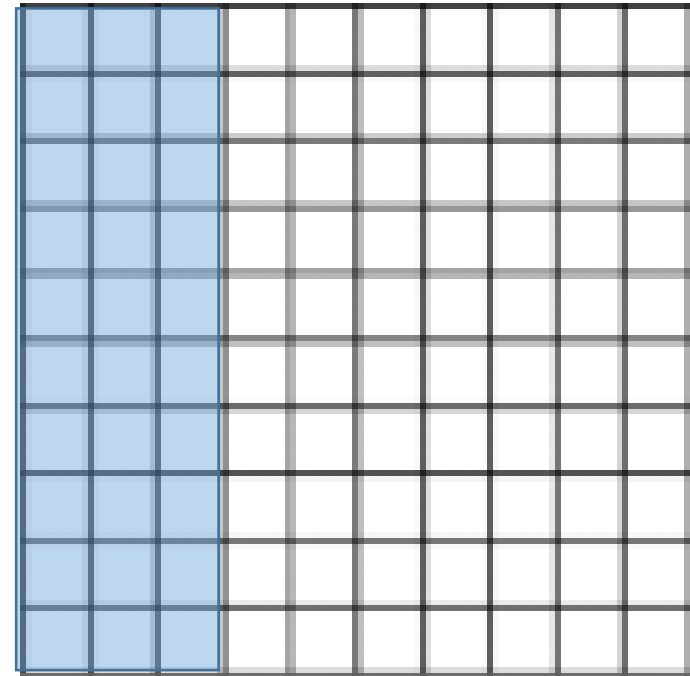
Each square is 1 out of 100 equal squares.

Each square represents $\frac{1}{100}$

Each row is 1 out of 10 equal rows.

Each row represents $\frac{1}{10}$

Two chillies



Shade three tenths of the hundred square.

Any 3 rows or columns shaded.

Shade another three hundredths in a different colour.

Any 3 small squares shaded.

How many hundredths are the same as three tenths?

$$\frac{3}{10} = \frac{30}{100}$$

INTELLIGENT PRACTICE: three chillies

To answer these questions, you will need to understand that one tenth is the same as ten hundredths.

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

They are equivalent fractions!

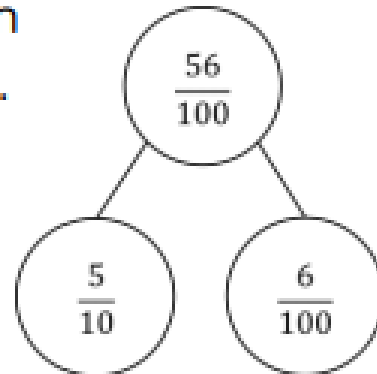
Complete the table.

Shaded	Tenths	Hundredths
20 squares	$\frac{2}{10}$	$\frac{20}{100}$
4 columns		
3 rows		
	$\frac{7}{10}$	

We can use a part-whole model to partition 56 hundredths into tenths and hundredths.

Partition into tenths and hundredths:

- 65 hundredths
- $\frac{31}{100}$
- 80 hundredths



INTELLIGENT PRACTICE: three chillies answers

Complete the table.

Shaded	Tenths	Hundredths
20 squares	$\frac{2}{10}$	$\frac{20}{100}$
4 columns	$\frac{4}{10}$	$\frac{40}{100}$
3 rows	$\frac{3}{10}$	$\frac{30}{100}$
7 rows or columns	$\frac{7}{10}$	$\frac{70}{100}$

6 tenths and 5 hundredths

$$\frac{6}{10} + \frac{5}{100}$$

3 tenths and 1 hundredth

$$\frac{3}{10} + \frac{1}{100}$$

- 65 hundredths
- $\frac{31}{100}$
- 80 hundredths

8 tenths

$$\frac{8}{10}$$

DIVE DEEPER

Who is correct?

5 hundredths is equivalent to 50 tenths.

Dora



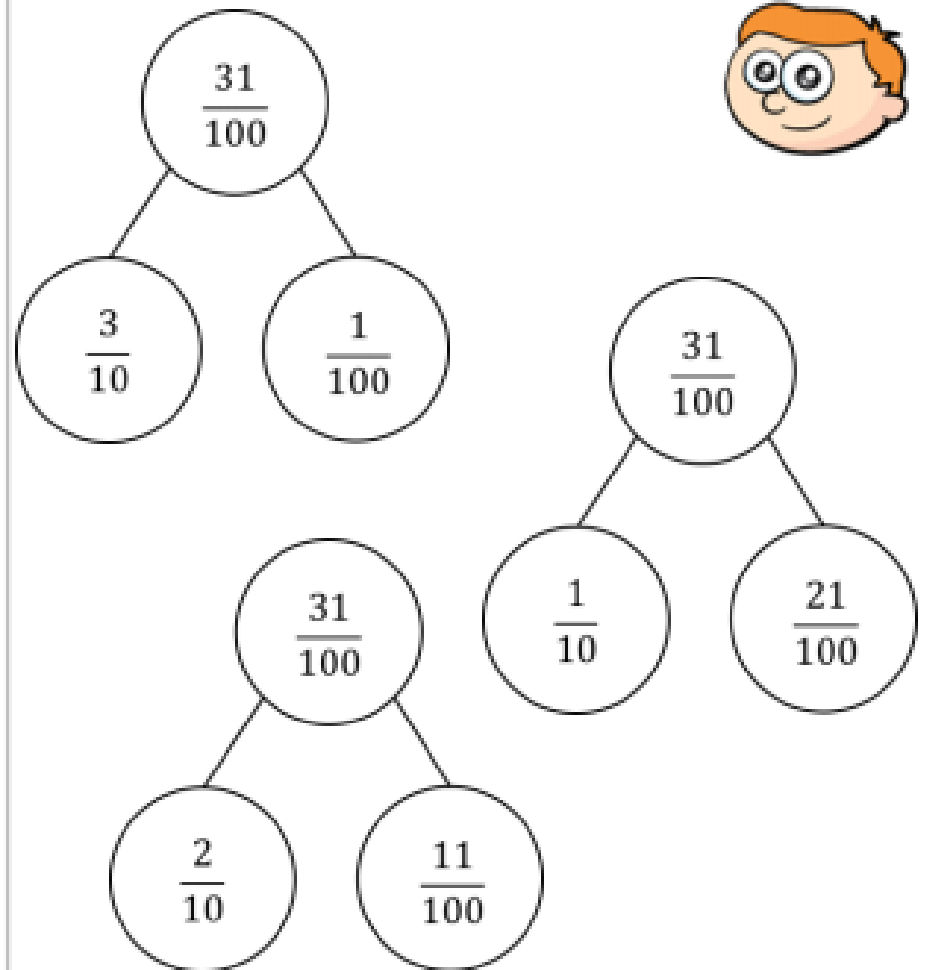
50 hundredths is equivalent to 5 tenths.



Amir

Explain why.

Ron says he can partition tenths and hundredths in more than one way.



Use Ron's method to partition 42 hundredths in more than one way.

DIVE DEEPER answers

Who is correct?

5 hundredths is equivalent to 50 tenths.

Dora



50 hundredths is equivalent to 5 tenths.



Amir

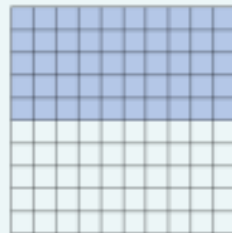
Explain why.

Amir is correct.
 $\frac{50}{100}$ is equivalent to $\frac{5}{10}$

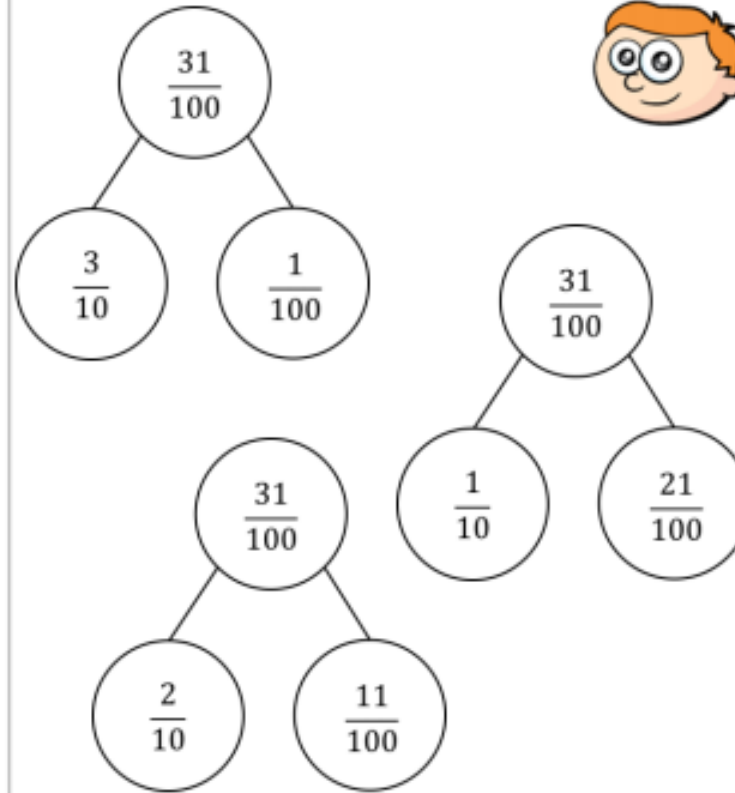
This can be demonstrated with Base 10 or a hundred square.

50 squares is $\frac{50}{100}$

5 rows
is $\frac{5}{10}$



Ron says he can partition tenths and hundredths in more than one way.



Use Ron's method to partition 42 hundredths in more than one way.

Children may partition 42 hundredths as:

- 4 tenths and 2 hundredths
- 3 tenths and 12 hundredths
- 2 tenths and 22 hundredths
- 1 tenth and 32 hundredths
- 0 tenths and 42 hundredths

Other methods of partitioning are possible.

Self assessment: how did you do?

- SOME WILL EVEN partition hundredths into hundredths and tenths
- SOME will convert hundredths to tenths
- MOST will recognise equivalence between tenths and hundredths
- ALL will identify tenths and hundredths using a hundred square

Did you successfully complete the second three chilli question? What about Dive Deeper 2?

Did you successfully complete the table in the three chilli question?

Do you know how many hundredths are the same as one tenth?

Can you show someone what a tenth looks like on a hundred square? What about a hundredth?