

12.07.2021

WALT: Find equivalence between decimals and fractions

Vocabulary

part

whole

decimal

fractions

Prior learning:

What does equivalence mean?

Complete the sentences.



There are ___ ones, ___ tenths, ___ hundredths and ___ thousandths.

The number in digits is _____

WALT: Find equivalence between **decimals** and fractions

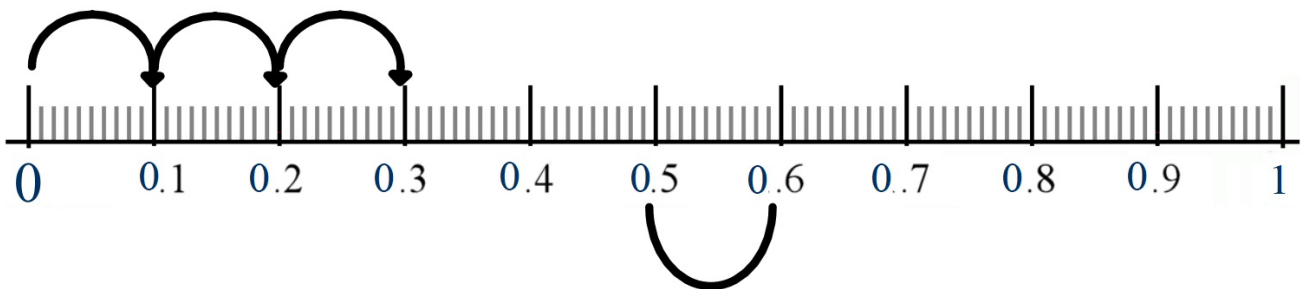
Decimals...

Show it

Explain it

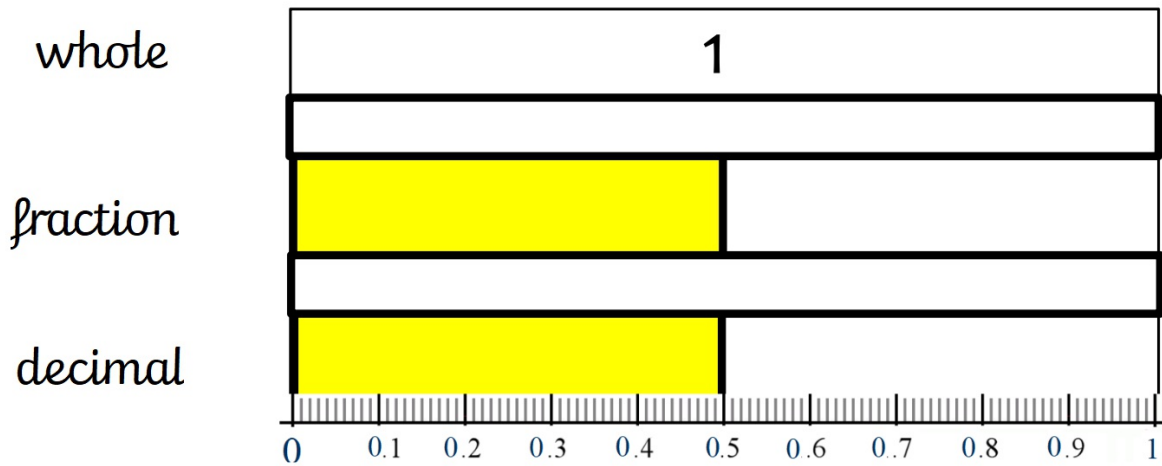
Decimals work in base ten.

How many jumps make a whole?
What are these jumps called?



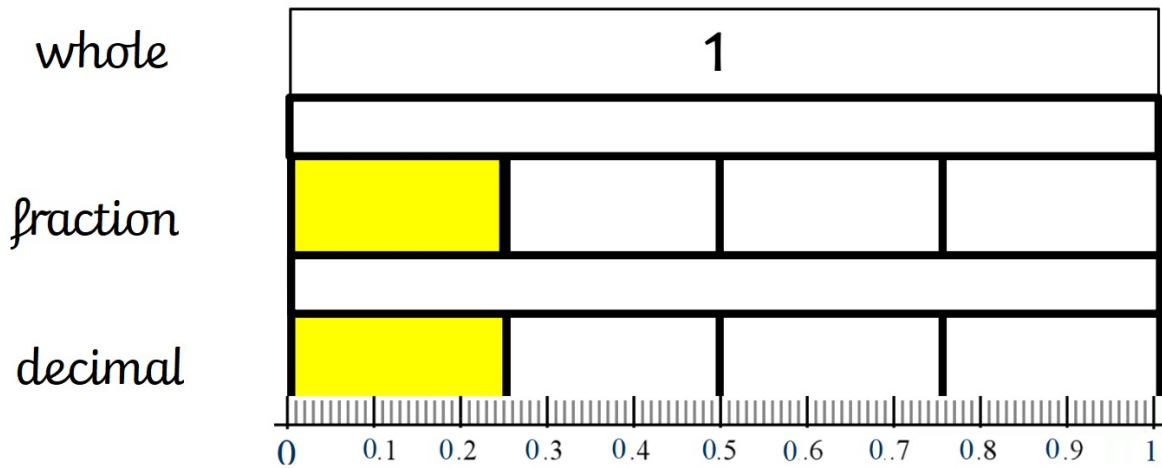
How many small lines should be
between 0.5 and 0.6?

Write the fraction and the decimal that is represented...



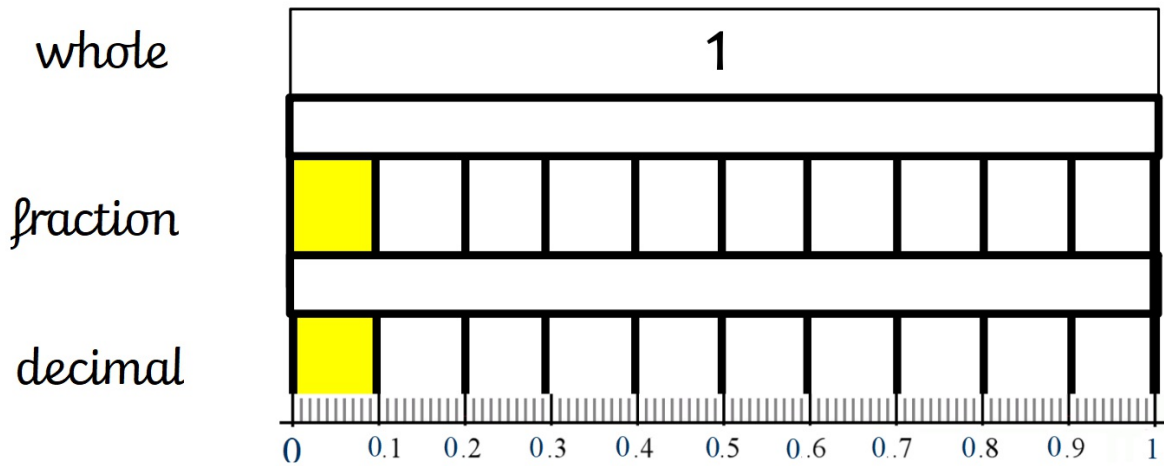
How do we know that these are equivalent?
Explain your answer.

Write the fraction and the decimal that is represented...



How do we know that these are equivalent?
Explain your answer.

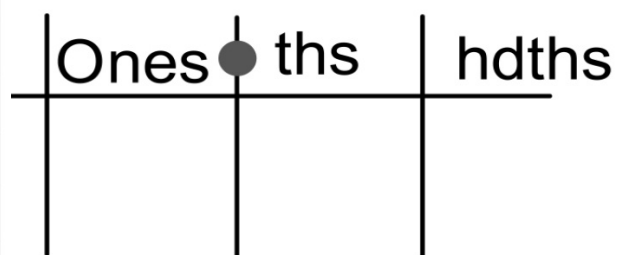
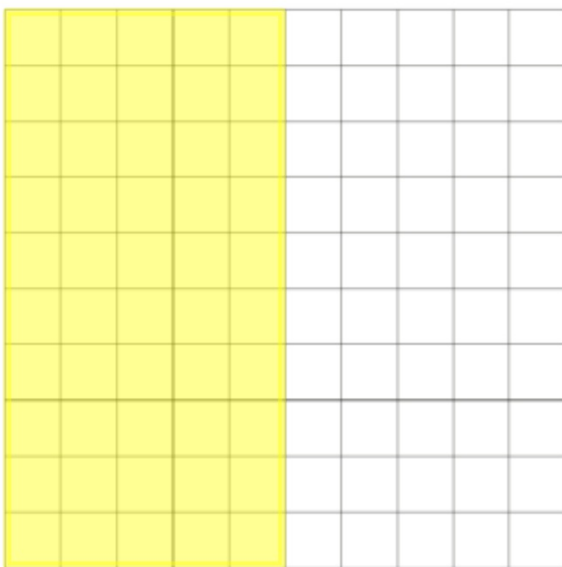
Write the fraction and the decimal that is represented...



How do we know that these are equivalent?
Explain your answer.

How many parts make the whole?

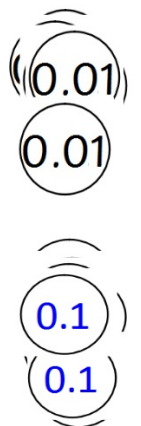
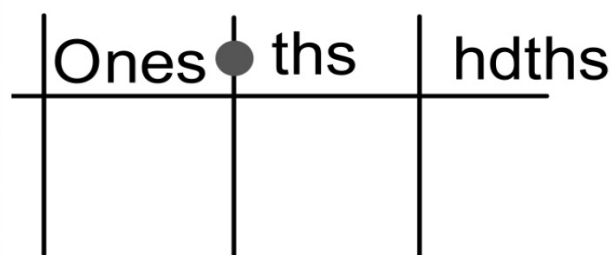
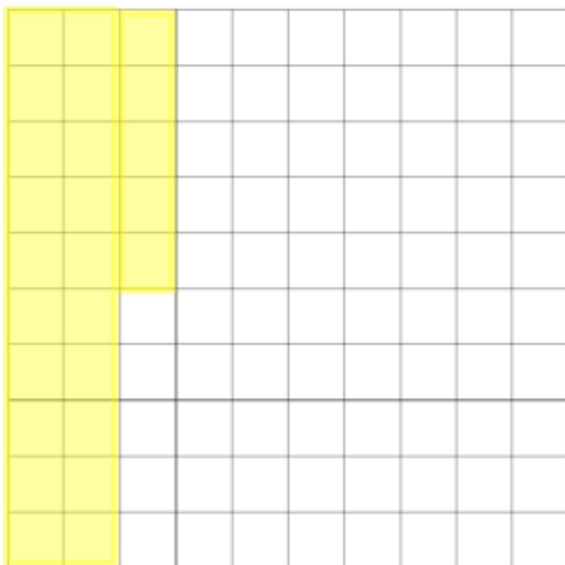
50 parts are shaded.



Write as a fraction.
Write as a decimal.

How many parts make the whole?

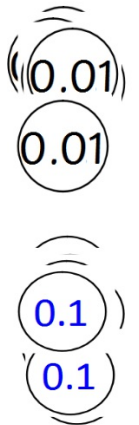
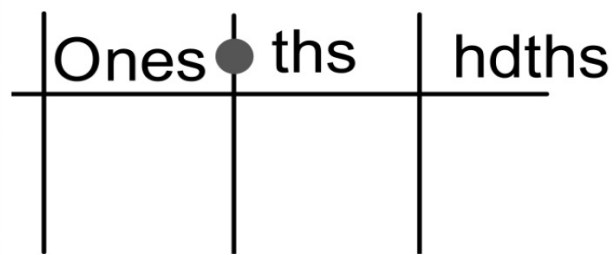
..... parts are shaded.



Write as a fraction.
Write as a decimal.

How many parts make the whole?

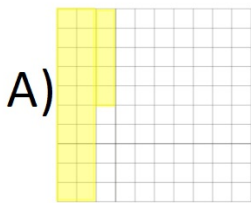
..... parts are shaded.



Write as a fraction.
Write as a decimal.

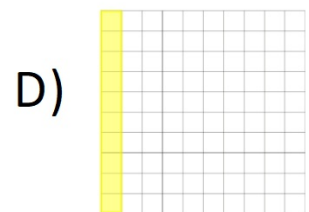
Hinge Question:

Which of the following are equivalent to 0.25?



B) $25/1000$

C) $1/4$



E) I'm not sure **yet**




Try it / Use it

1.

What decimal is shaded?
Can you write this as a fraction?

0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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2. Complete the table.

Decimal	Fraction in tenths or hundredths	Simplified fraction
0.6	$\frac{6}{10}$	$\frac{3}{5}$
		
		
		
0.95		

3.

0.1 is equivalent to _____ as a fraction.

$\frac{1}{2}$ is equivalent to _____ as a decimal.

$\frac{1}{4}$ is equivalent to _____ as a fraction.

4. Tick the **two** numbers that are equivalent to $\frac{1}{4}$

Tick **two**.

0.25

0.75

$\frac{25}{100}$

0.5

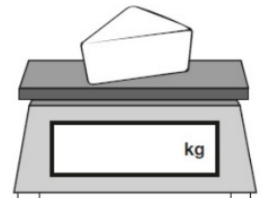
$\frac{2}{5}$

5.



I would like to buy **one-quarter** of a kilogram of cheese.

Write one-quarter on the scales as a decimal.



The cheese costs £1.35

Amina pays with a £2 coin.

How much change should Amina get?

Prove it

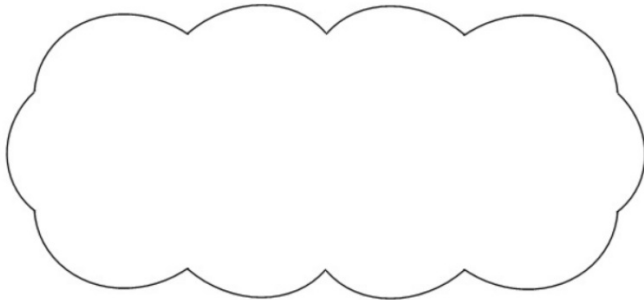
1.

Adam says,

0.25 is smaller than $\frac{2}{5}$



Explain why he is correct.



2.

Pavel wants to use coins to help some of his friends understand the decimal equivalents of fractions.

He starts with 2 50p coins make £1, so $50p = \frac{1}{2}$ of £1.

$\frac{1}{2}$ of £1 = £0.50, so $\frac{1}{2} = 0.5$

Use other coins to help explain decimal equivalents of fractions.

3. Put a tick (✓) in **each row** to complete this table.

One has been done for you.

	greater than $\frac{1}{2}$	less than $\frac{1}{2}$
0.9	✓	
0.06		
$\frac{11}{20}$		
0.21		

Explain how you know for each one.