1 x 12 = 12

2 x 12 = 24

3 x 12 = 36

4 x 12 = 48

5 x 12 = 60

6 x 12 = 72

7 x 12 = 84

8 x 12 = 96

9 x 12 = 108

10 x 12 = 120

11 x 12 = 132

12 x 12 = 144

$12 \div 12 = 1$

$24 \div 12 = 2$

$36 \div 12 = 3$

$48 \div 12 = 4$

$60 \div 12 = 5$

$72 \div 12 = 6$

$84 \div 12 = 7$

$96 \div 12 = 8$

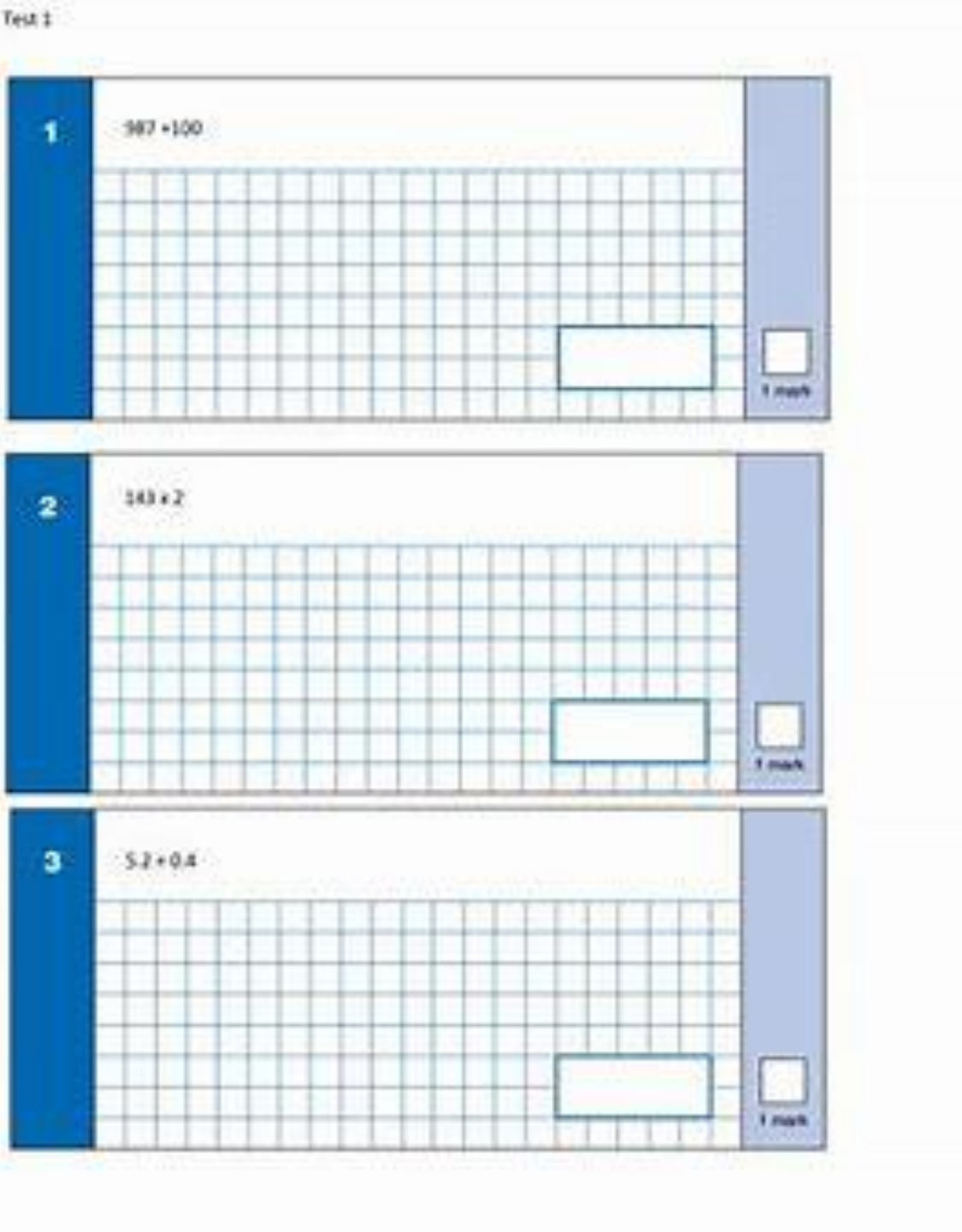
$108 \div 12 = 9$

$120 \div 12 = 10$

$132 \div 12 = 11$

$144 \div 12 = 12$

Arithmetic Test



13.01.2021

L.O: To convert fractions into decimals.

Success Criteria;

- Use your knowledge of place value
- Use your knowledge of equivalent fractions
- Use your knowledge of decimal equivalents

Introduction

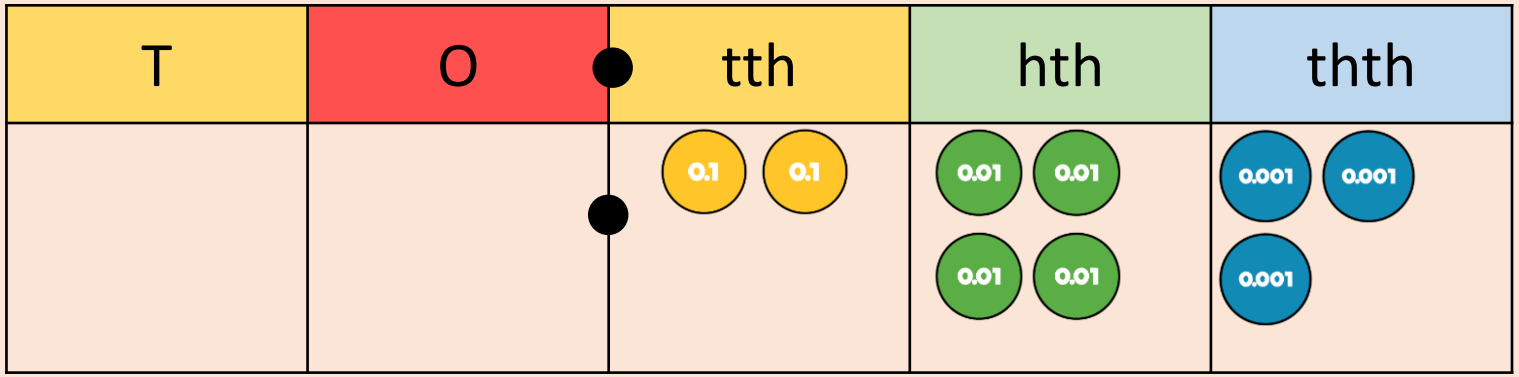
Order these decimals in ascending order.

0.6	0.75	0.33	0.09	0.65

Introduction

Order these decimals in ascending order.

0.09	0.33	0.6	0.65	0.75



1) What number is represented in the place value chart? Write it in words and numerals.

2) Write each decimal as a fraction.

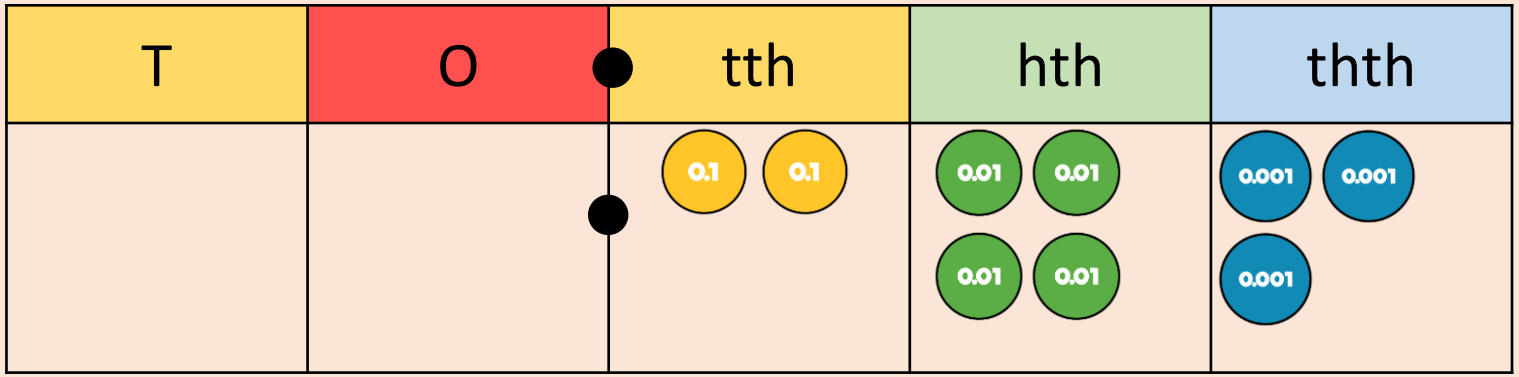
0.7 =

0.73 =

0.42 =

0.88 =

3) What is the value of the digit 6? 41.98<u>6</u>



1) What number is represented in the place value chart? Write it in words and numerals.

0.243 Two hundred and forty three thousandths

2) Write each decimal as a fraction.

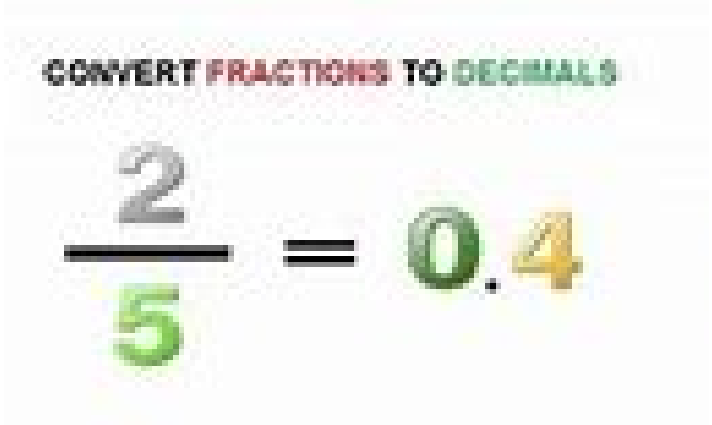
$0.7 = \frac{7}{10}$ $0.73 = \frac{73}{100}$

$0.42 = \frac{42}{100} = \frac{21}{50}$ $0.88 = \frac{88}{100} = \frac{44}{50} = \frac{21}{25}$

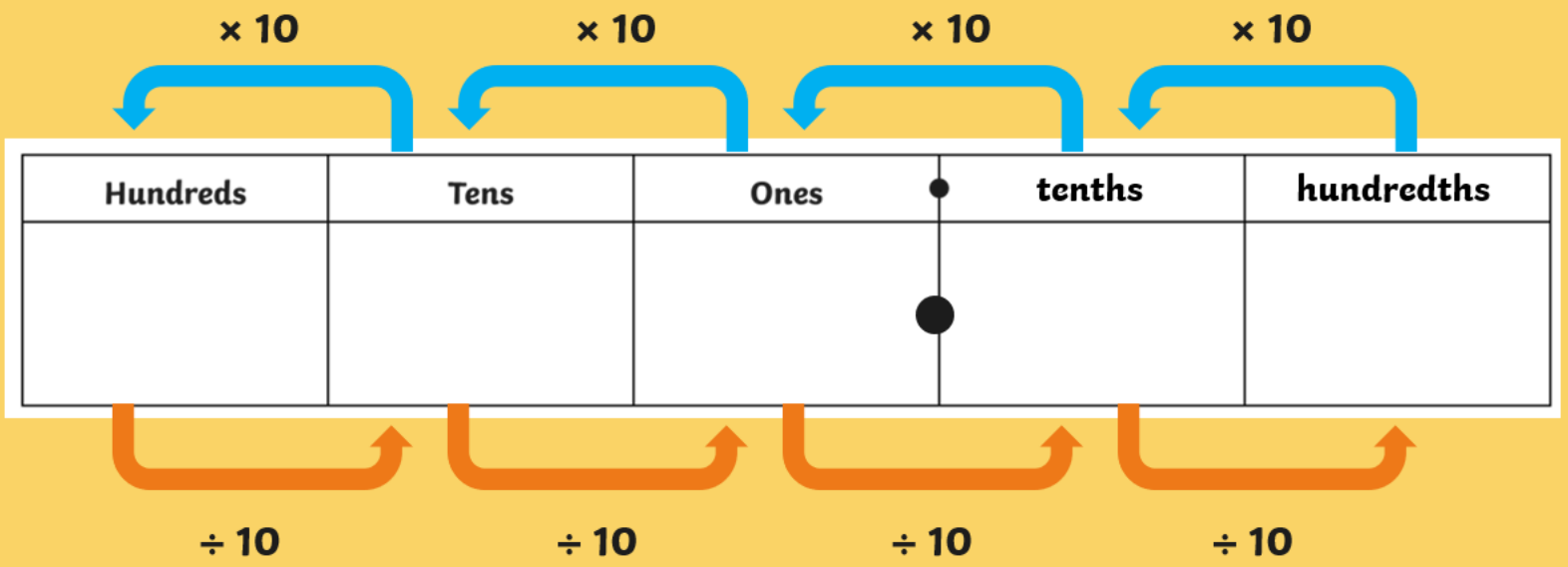
3) What is the value of the digit 6? 41.98$\underline{6}$

6 thousandths

Fractions as decimals



Place Value



Fractions to Decimals

How would you write $\frac{3}{10}$ as a decimal number?

Hundreds	Tens	Ones	tenths	hundredths

Fractions to Decimals

How would you write $\frac{3}{10}$ as a decimal number?

Hundreds	Tens	Ones	tenths	hundredths
		0	3	

Place holder 3 tenths

Fractions to Decimals

How would you write $\frac{10}{10}$ as a decimal number?

Hundreds	Tens	Ones	tenths	hundredths

Fractions to Decimals

How would you write $\frac{10}{10}$ as a decimal number?

Hundreds	Tens	Ones	tenths	hundredths
		1		

Fractions to Decimals

How would you write $\frac{4}{100}$ as a decimal number?

Hundreds	Tens	Ones	tenths	hundredths

Fractions to Decimals

How would you write $\frac{4}{100}$ as a decimal number?

Hundreds	Tens	Ones	tenths	hundredths
		0	0	4

Place holders

4 hundredths

Fractions to Decimals

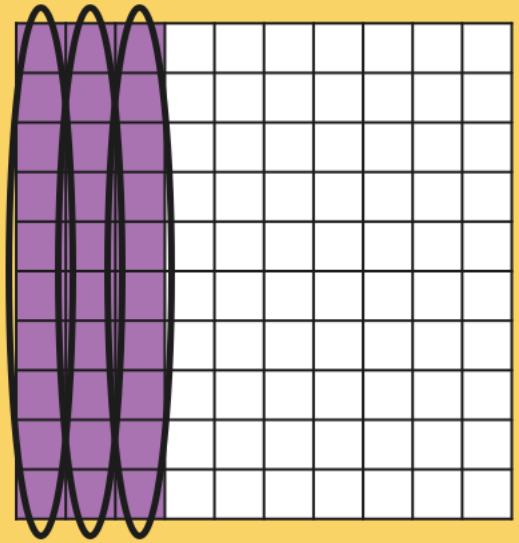
How would you write $\frac{30}{100}$ as a decimal number?

Hundreds	Tens	Ones	tenths	hundredths

Fractions to Decimals

How would you write $\frac{30}{100}$ as a decimal number?

Hundreds	Tens	Ones	tenths	hundredths
		0	3	



Varied Fluency 2

True or false?

0.8 is equivalent to $\frac{4}{5}$.

Varied Fluency 2

True or false?

0.8 is equivalent to $\frac{4}{5}$.

True

Reasoning 1

Steph and Ben are comparing fractions.

Steph

I think that 0.35 is greater.

I think that $\frac{2}{5}$ is greater.

Ben

Who is correct?
Explain how you know.

Reasoning 1

Steph and Ben are comparing fractions.

Steph

I think that 0.35 is greater.

I think that $\frac{2}{5}$ is greater.

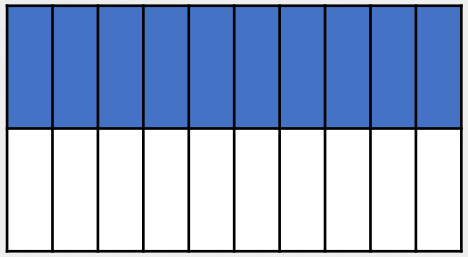
Ben

Who is correct?
Explain how you know.

Ben is correct, $\frac{2}{5}$ is 0.4 which is greater than 0.35.

Problem Solving 1

Convert the fractions into decimals and write them in ascending order.

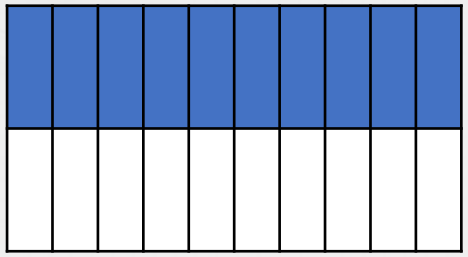


$\frac{3}{5}$

$\frac{4}{10}$

Problem Solving 1

Convert the fractions into decimals and write them in ascending order.



0.5

$\frac{3}{5}$

0.6

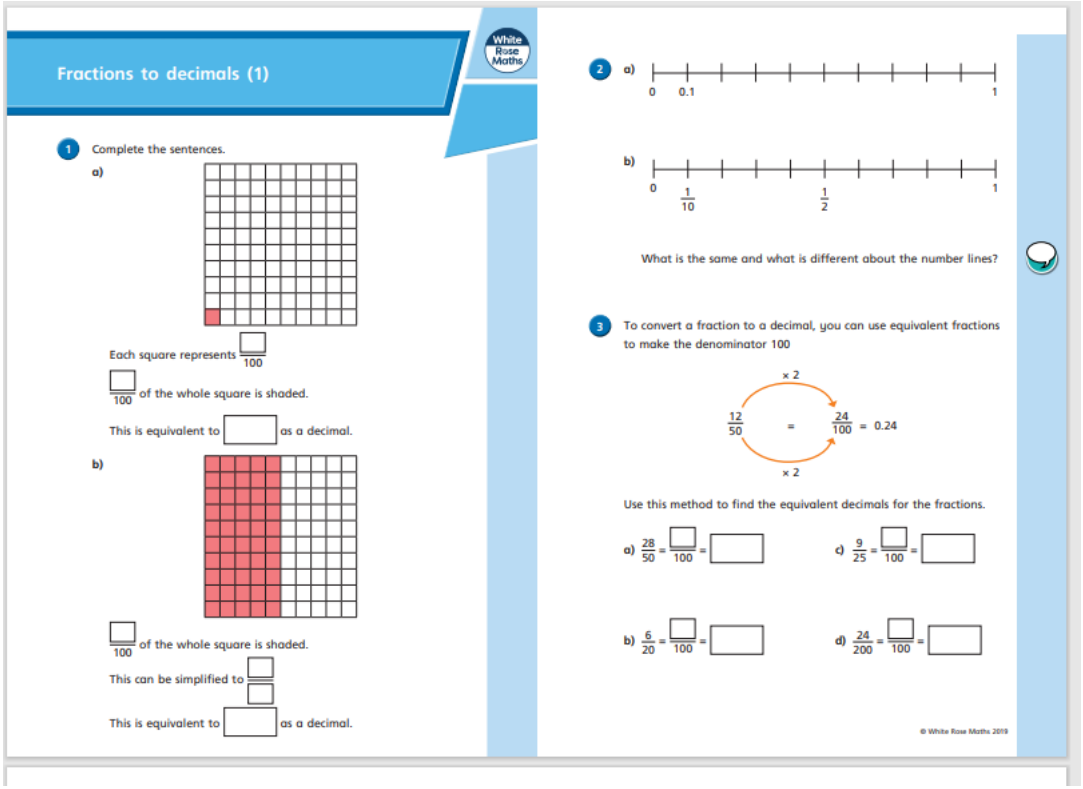
$\frac{4}{10}$

0.4

0.8

In ascending order: 0.4, 0.5, 0.6, 0.8

Main Activity



Fractions to decimals (1)

White Rose Maths

1 Complete the sentences.

a)

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

$\frac{\square}{100}$ of the whole square is shaded.

This is equivalent to $\square$ as a decimal.

b)

$\frac{\square}{100}$ of the whole square is shaded.

This can be simplified to $\frac{\square}{\square}$

This is equivalent to $\square$ as a decimal.

2 a)

b)

What is the same and what is different about the number lines?

3 To convert a fraction to a decimal, you can use equivalent fractions to make the denominator 100

$\frac{12}{50} = \frac{24}{100} = 0.24$ (× 2)

Use this method to find the equivalent decimals for the fractions.

a) $\frac{28}{50} = \frac{\square}{100} = \square$

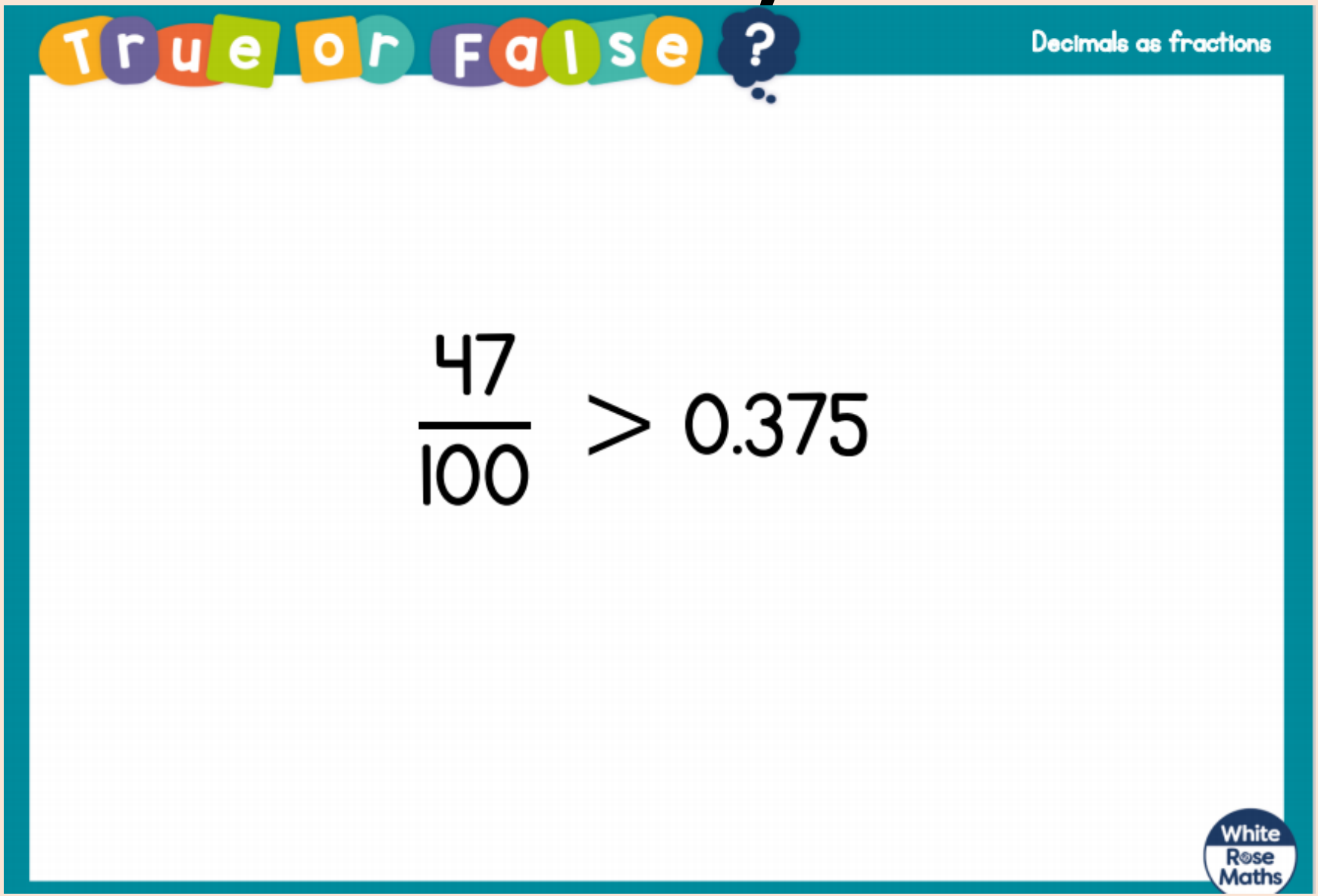
b) $\frac{6}{20} = \frac{\square}{100} = \square$

c) $\frac{9}{25} = \frac{\square}{100} = \square$

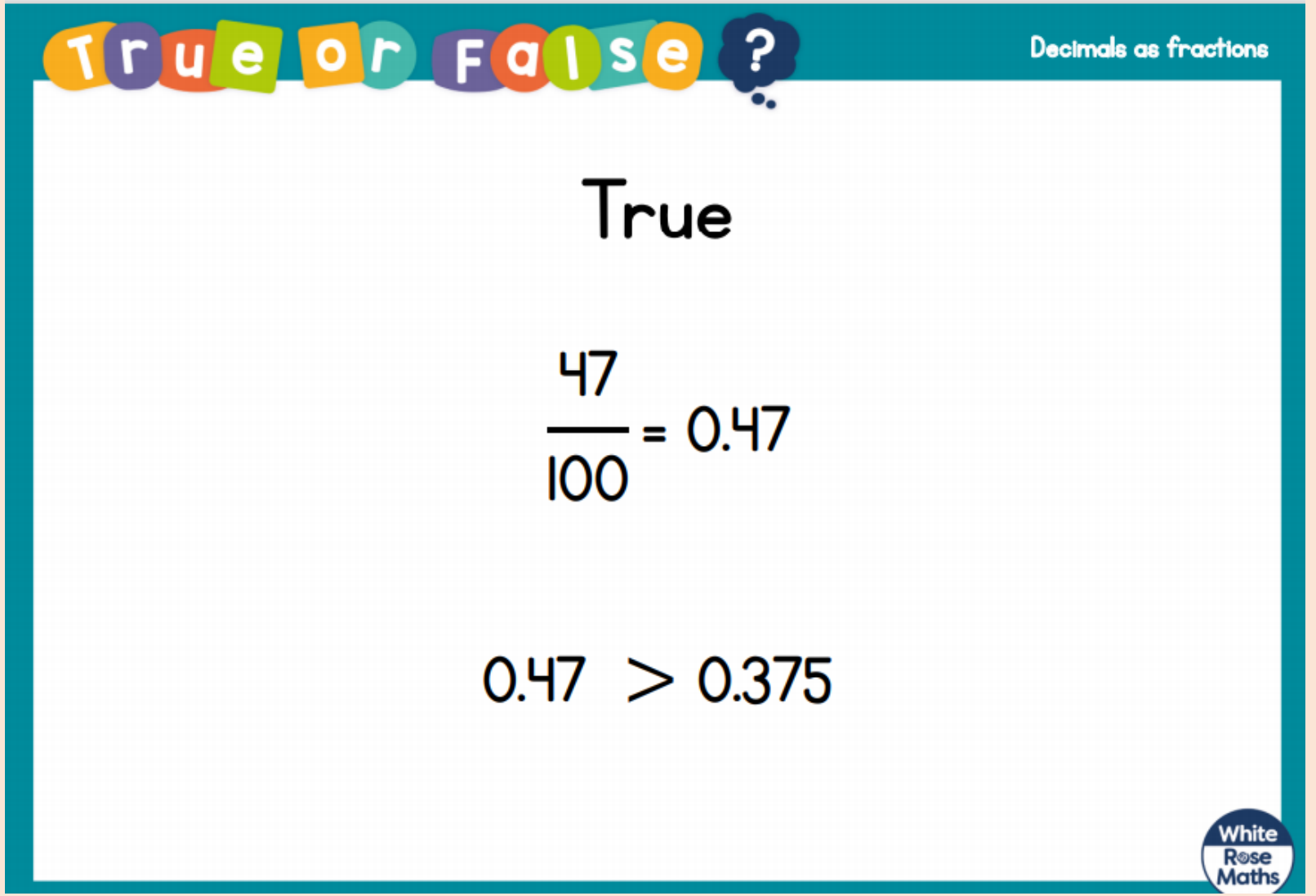
d) $\frac{24}{200} = \frac{\square}{100} = \square$

Complete the worksheet- fractions to decimals
Complete the RPS worksheet you are normally given in class- red, blue or yellow

Plenary


True or False ?
Decimals as fractions
$\frac{47}{100} > 0.375$
White Rose Maths

Plenary


True or False ?
Decimals as fractions
True
47/100 = 0.47
0.47 > 0.375
White Rose Maths