

29.01.21 Fluent in five

1) $1,835 \times 8 =$

2) $8 \times 2 \times 2 =$

3) $3,658 \div 4 =$

4) $5,267 + 3,999 =$

5) $264 \times 3 =$

6) $200 + 4 \times 2 =$

1) $5.32 \times 4 =$

5) $8639 + 4244 =$

2) $9432 - 1993 =$

3) $24 - 5 \times 3 =$

4) $\frac{1}{5} - \frac{4}{5} =$

WALT interpret fractions as decimals

<https://vimeo.com/491237616>

Today we are going to convert fractions to decimals by making the denominator 10, 100 or 1000.

Let's try these

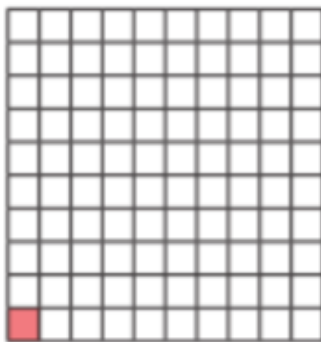
$$\frac{1}{10} =$$

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

$$\frac{1}{1000} =$$

Complete the sentences.

a)

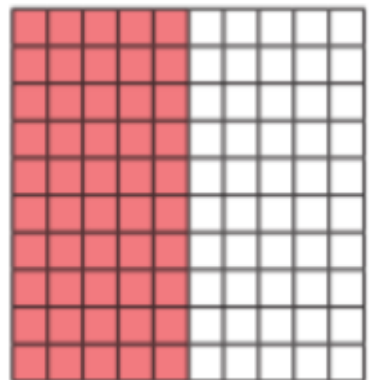


Each square represents $\frac{\square}{100}$

$\frac{\square}{100}$ 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.

Lets try these. Remember we need to get the denominator to 10, 100 or 1000

$$\frac{1}{5} =$$

$$\frac{4}{500} =$$

$$\frac{3}{50} =$$

A little bit trickier

$$\frac{4}{25} =$$

$$\frac{20}{250} =$$

$$\frac{8}{20} =$$

$$\frac{8}{200} =$$

Try these

$$\frac{12}{50} \overset{\times 2}{\curvearrowright} = \frac{24}{100} = 0.24$$

$\times 2$

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

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

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

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

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

Varied Fluency

Match the fractions to the equivalent decimals.

$$\frac{2}{5}$$

0.04

$$\frac{1}{25}$$

0.4

$$\frac{1}{4}$$

0.25

Use your knowledge of known fractions to convert the fractions to decimals. Show your method for each one.

$$\frac{7}{20}$$

$$\frac{3}{4}$$

$$\frac{2}{5}$$

$$\frac{6}{200}$$

Mo says that $\frac{63}{100}$ is less than 0.65

Do you agree with Mo?
Explain your answer.

Amir says,

The decimal 0.42 can be read as 'four tenths and two hundredths'.



Teddy says,

The decimal 0.42 can be read as 'forty-two hundredths'.



Who do you agree with?
Explain your answer.

True or False?

0.3 is bigger than $\frac{1}{4}$

Explain your reasoning.

Dora and Whitney are converting $\frac{30}{500}$ into a decimal.

- Dora doubles the numerator and denominator, then divides by 10
- Whitney divides both the numerator and the denominator by 5
- Both get the answer $\frac{6}{100} = 0.06$

Which method would you use to work out each of the following?

$$\frac{25}{500}$$

$$\frac{125}{500}$$

$$\frac{40}{500}$$

$$\frac{350}{500}$$

Explain why you have used a certain method.