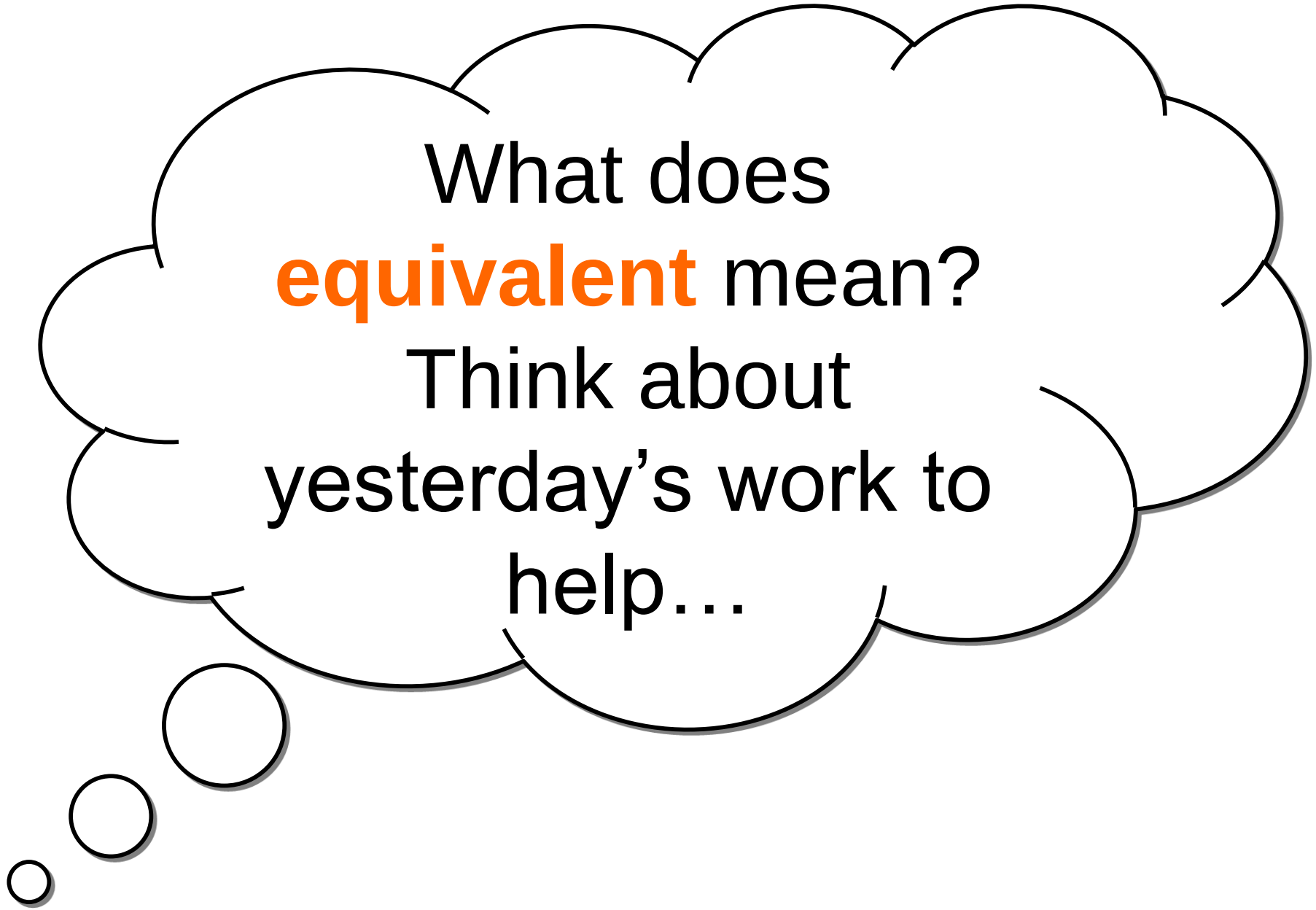
Fractions, Percentages and Decimals

Today we are going to be completing some retrieval practice on looking at equivalence between fractions, decimals and percentages.

Key words

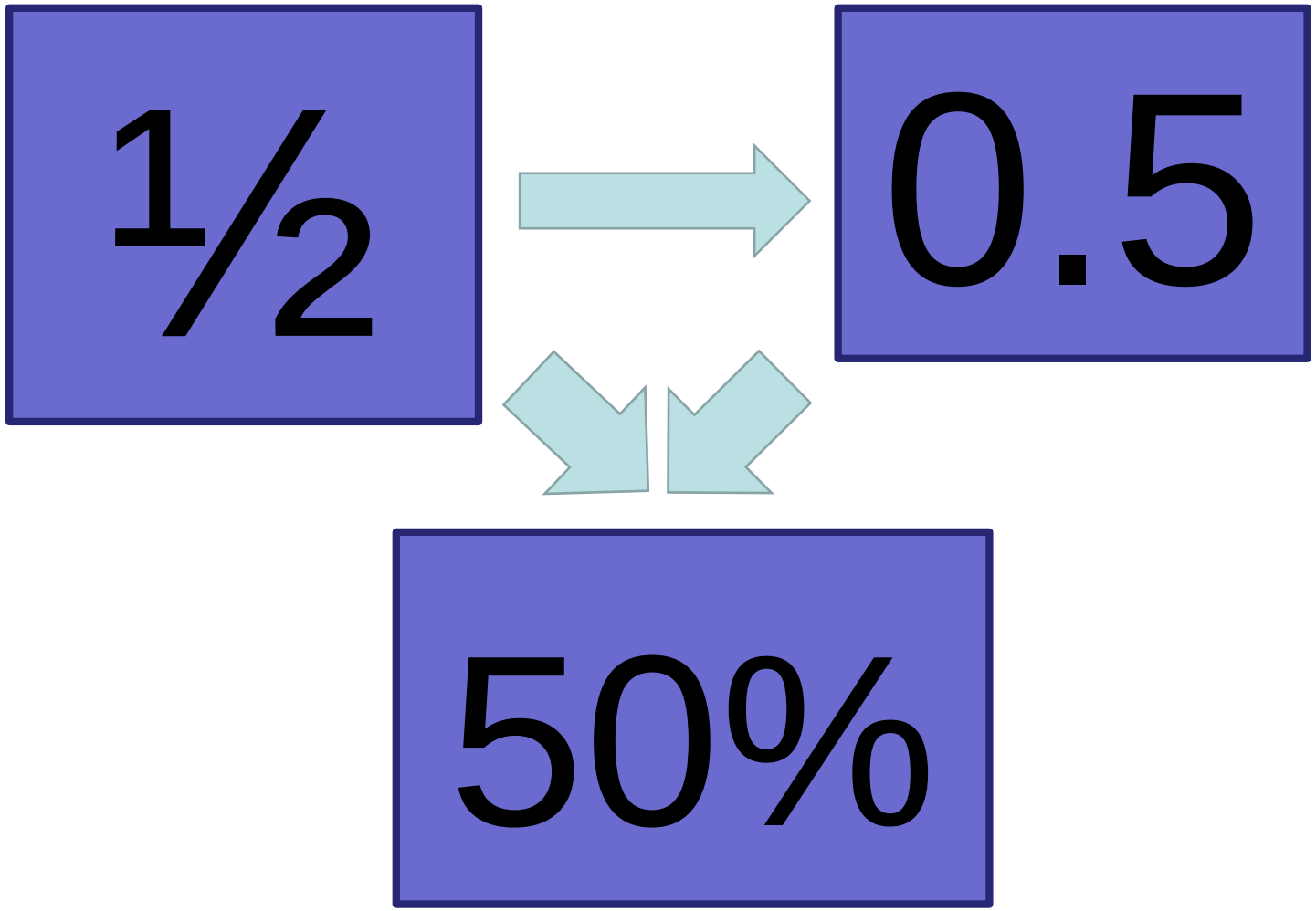
- Equivalent
- Fractions
- Decimals
- Percent

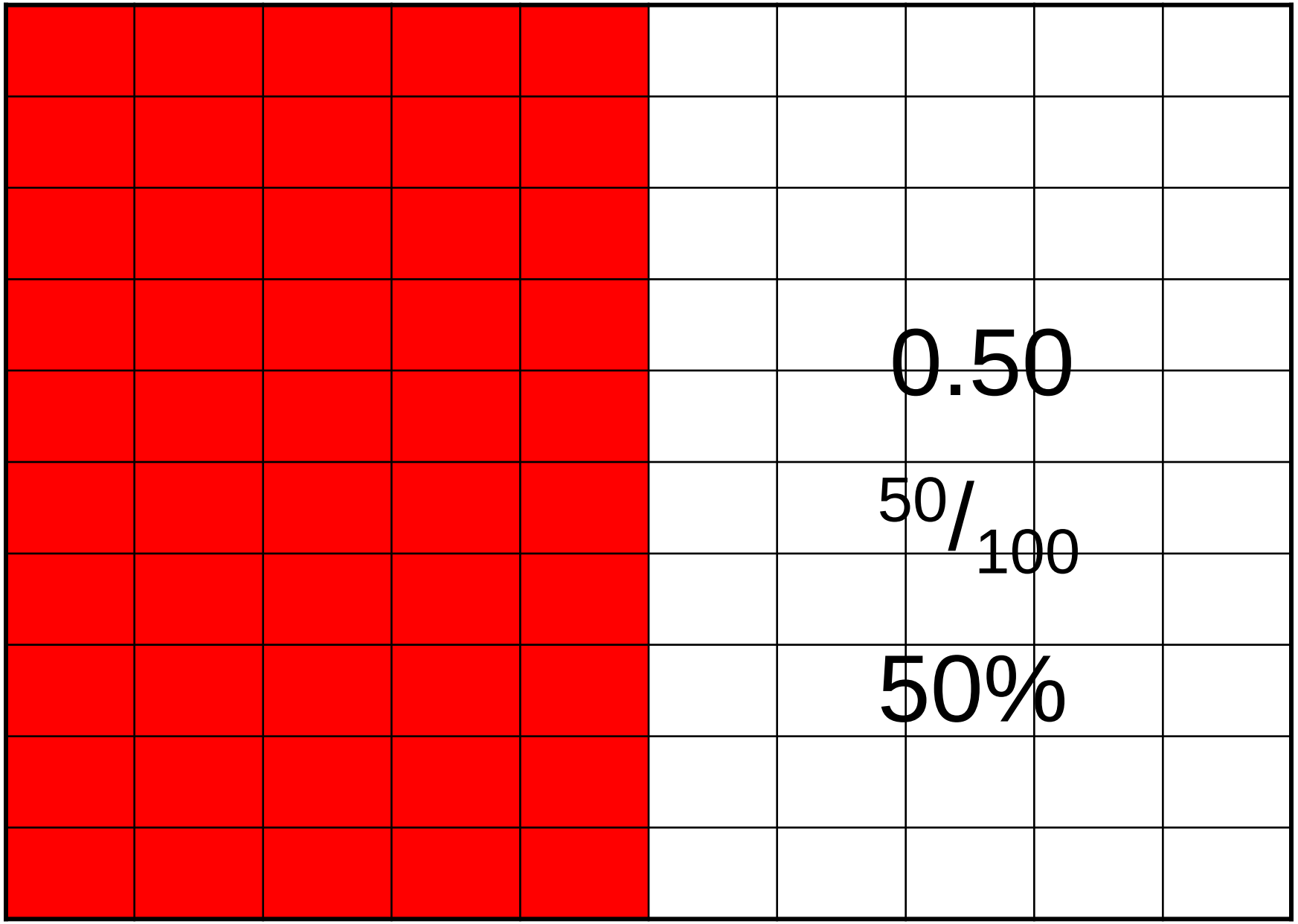

What does
equivalent mean?
Think about
yesterday's work to
help…

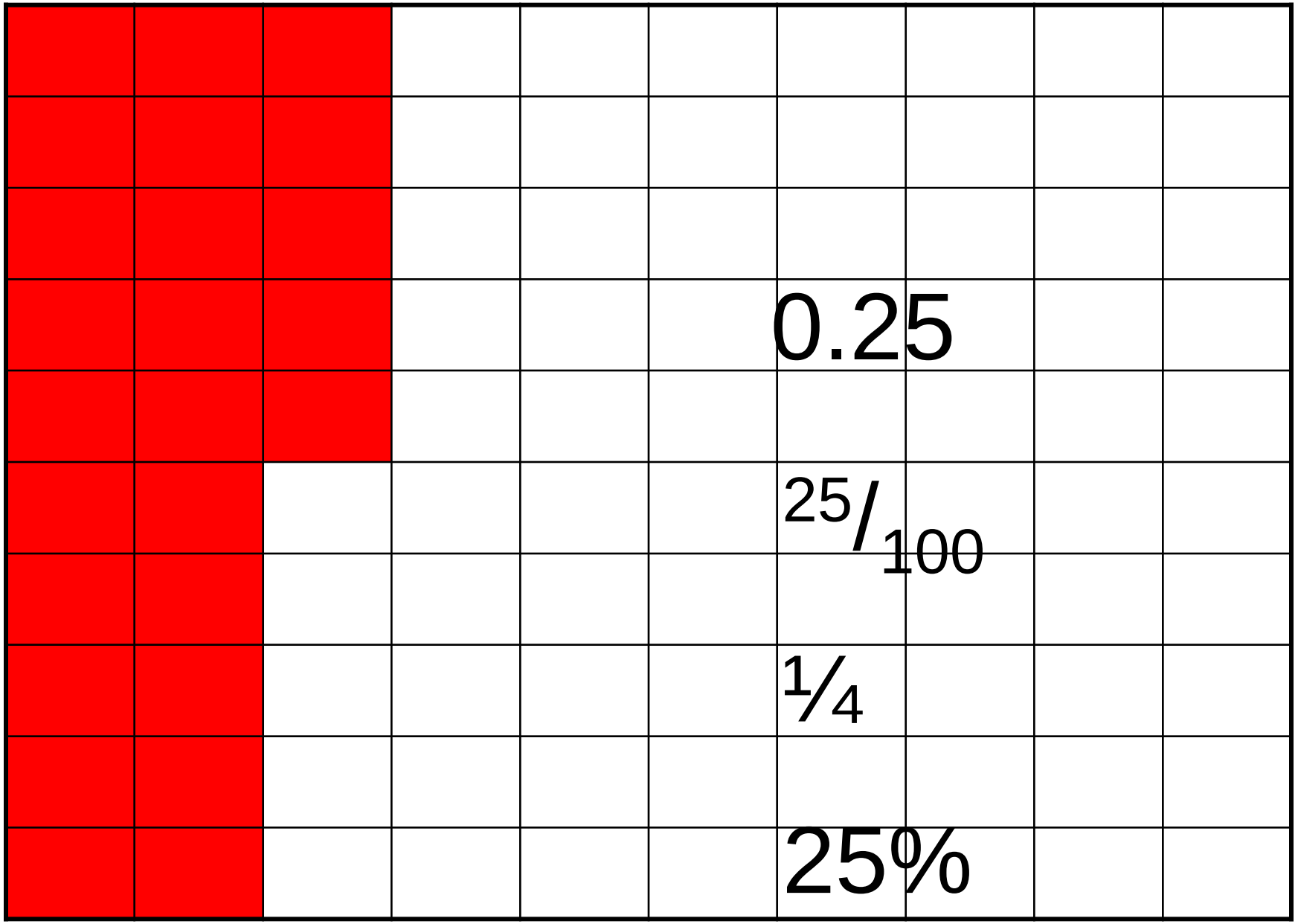
Re-cap from yesterday! Write three equivalent fractions for the fraction below.

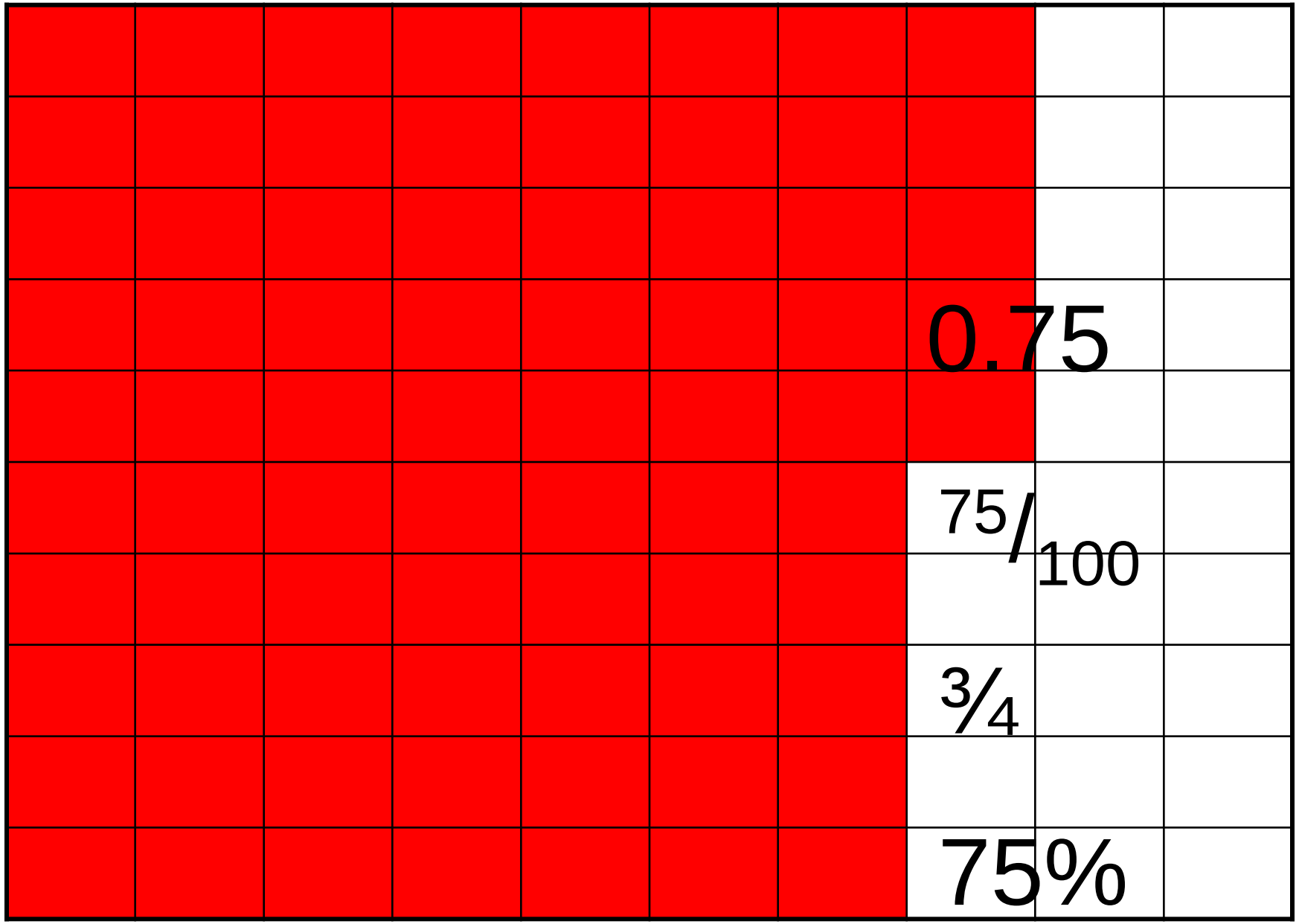
$$\frac{2}{3}$$

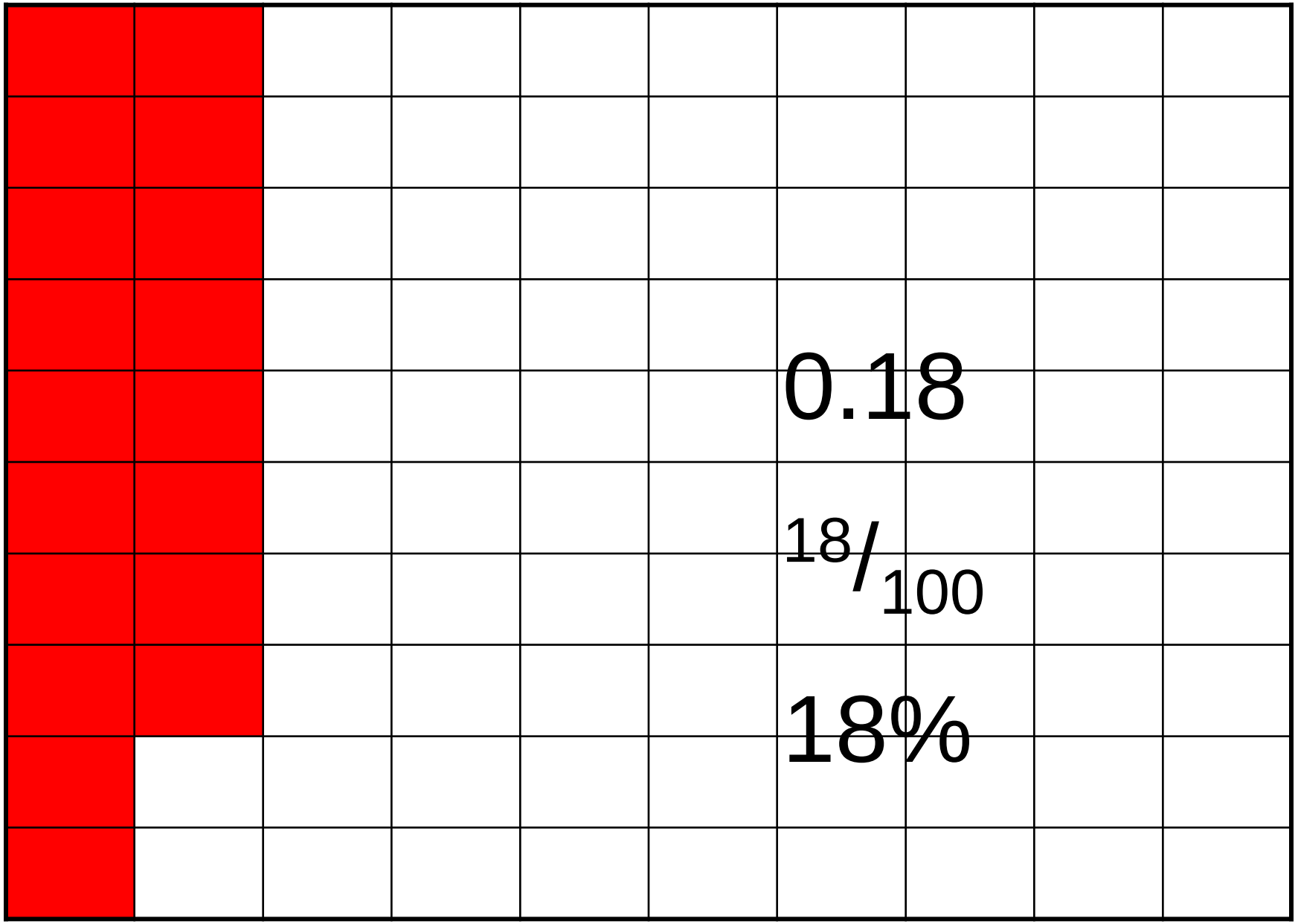
Fractions, decimals and percentages are just three ways of saying the same thing.

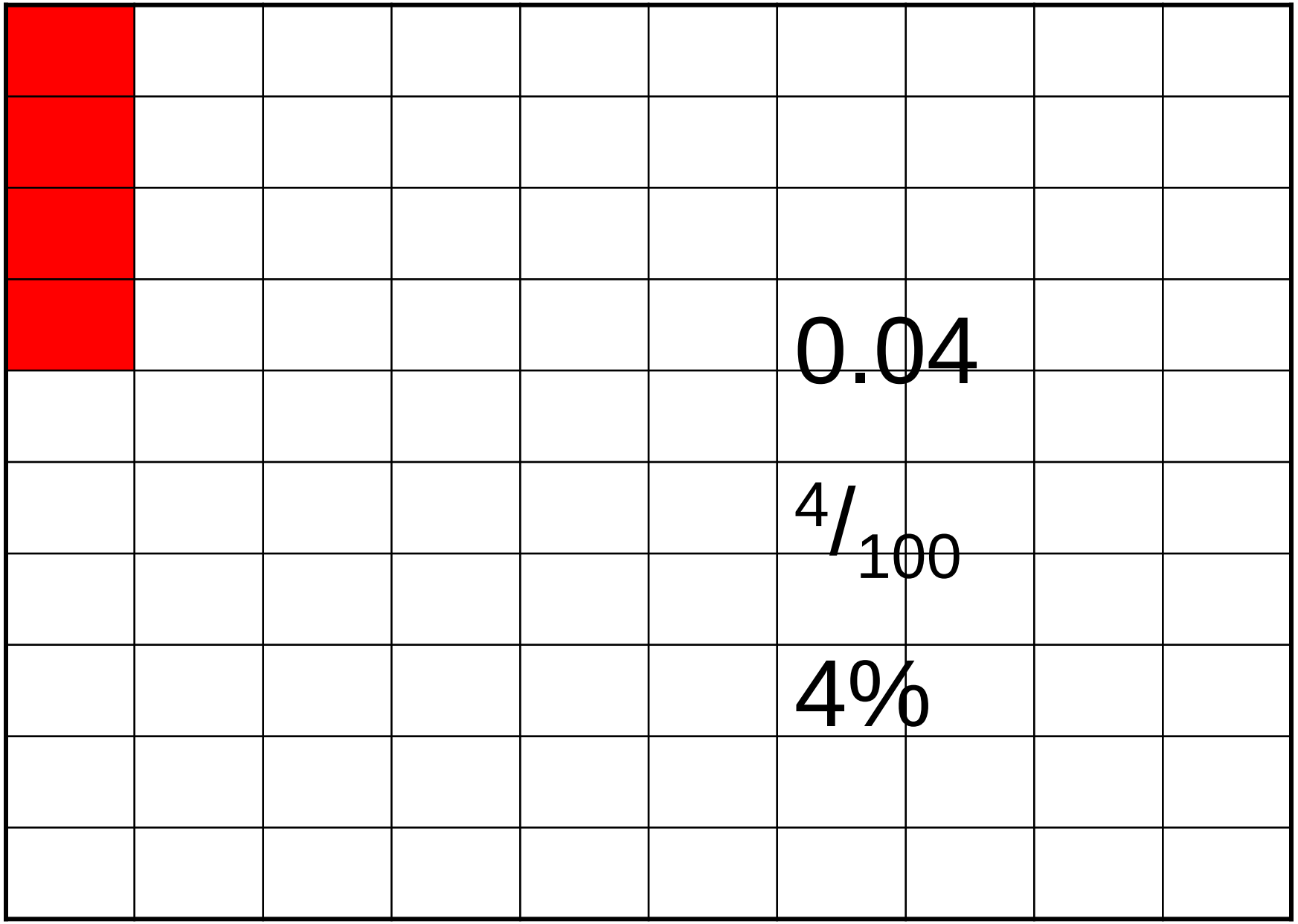



0.50
50/100
50%


0.25
25/100
1/4
25%

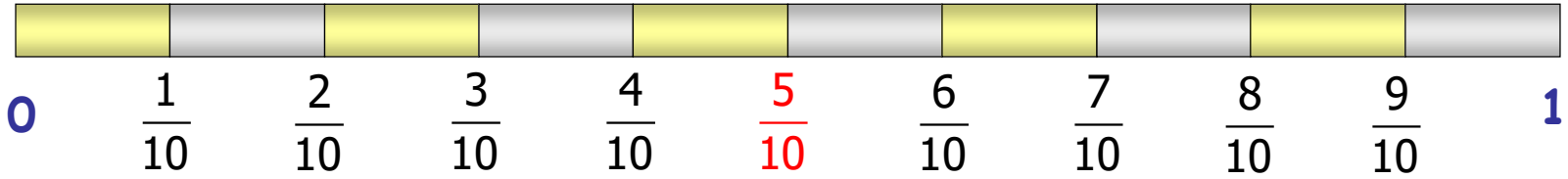

0.75
75/100
3/4
75%


0.18
18/100
18%


0.04
4/100
4%

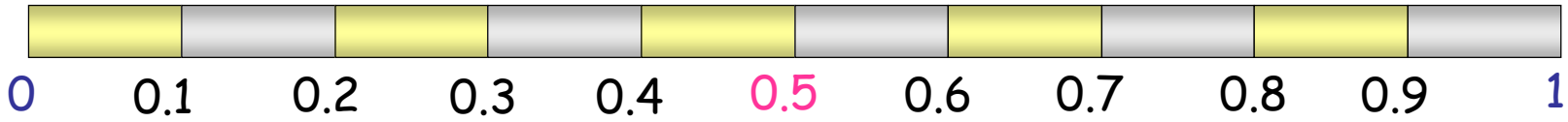
Fractions, Decimals and Percentages

Fraction



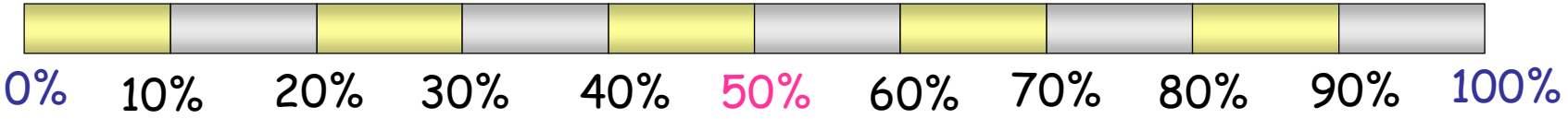
$\frac{1}{2}$

Decimal



$\frac{1}{2}$

Percentage



Just different ways of saying the same thing.

DECIMALS → FRACTIONS

Starting from the decimal point, count the decimal places. If there is one decimal place, put the number over 10 and reduce. If there are two places, put the number over 100 and reduce...

EXAMPLES:

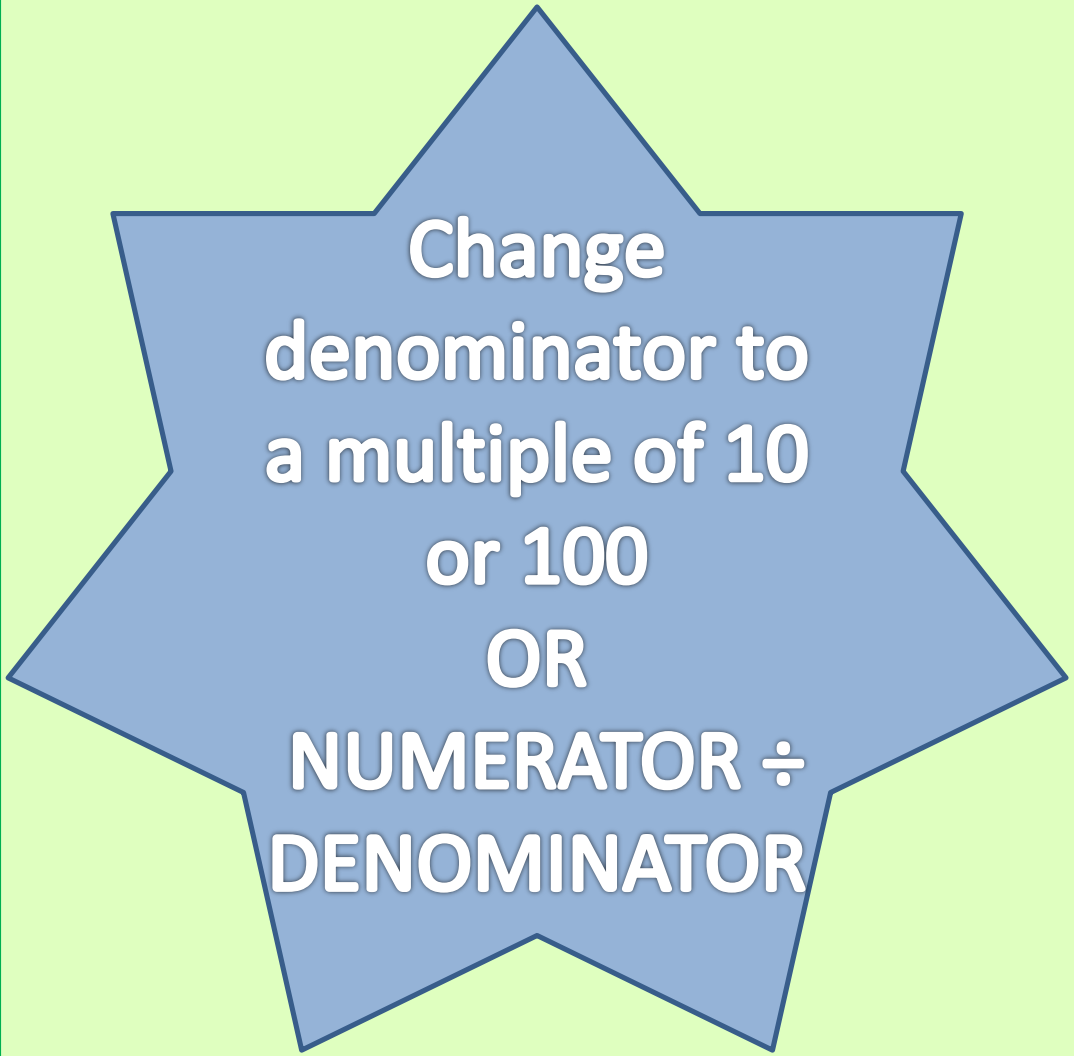
a) 0.8 = 8/10

b) 0.45 = 45/100

c) 0.123 = 123/1000

d) 0.2917 = 2917/10000

FRACTIONS → DECIMALS



EXAMPLES:

a) ¼ = 1÷4 = 0.25

b) 2/5 = 4/10 = 0.4

c) 12/50 = 24/100 = 0.24

d) 9/ 12 = 9÷12 = 0.75

FRACTIONS → PERCENTAGES

EXAMPLES:

a) 2/10 = 20/100 = 20%
b) 3/25 = 12/100 = 12%
c) 7/50 = 14/100 = 14%
d) 3/16 = as 16 doesn't go into 100 we know it isn't going to be a whole number percentage.

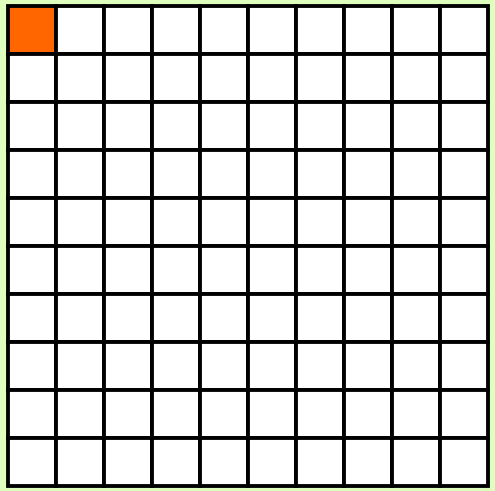
Make the denominator 100, then the answer is the numerator with a percentage sign

FRACTIONS → PERCENTAGES

A percentage is just a special type of fraction.

1% means 1 part per hundred

or $\frac{1}{100}$ = 0.01



PERCENTAGES → FRACTIONS

Write percentage over 100, then simplify

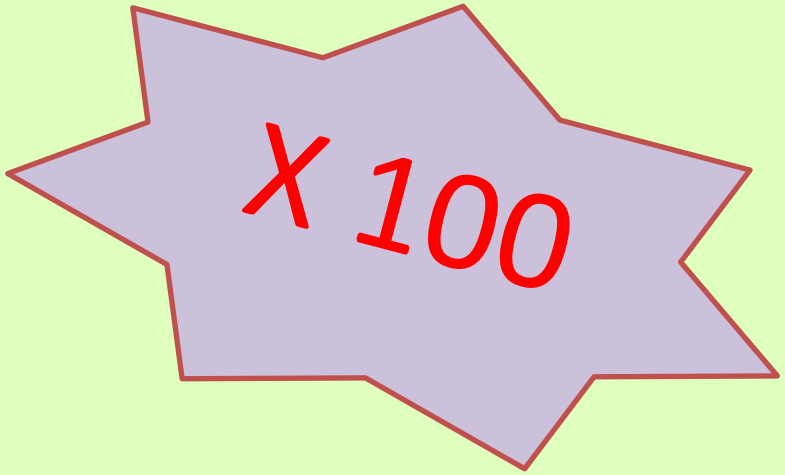
EXAMPLES:

a) 48% = 48/100 = 12/25

b) 92% = 92/100 = 46/50 = 23/25

DECIMALS → PERCENTAGES

EXAMPLES:



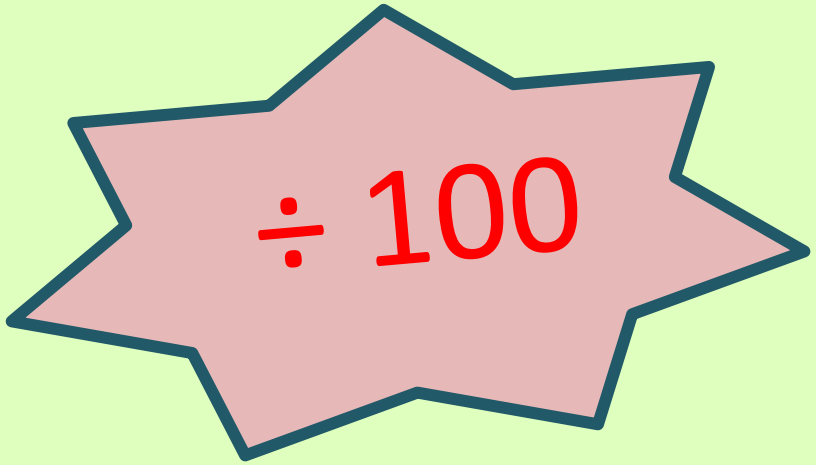
a)0.23 = 23%

b)0.8 = 80%

c)0.56 = 56%

d)0.231 = 23.1%

PERCENTAGES → DECIMALS



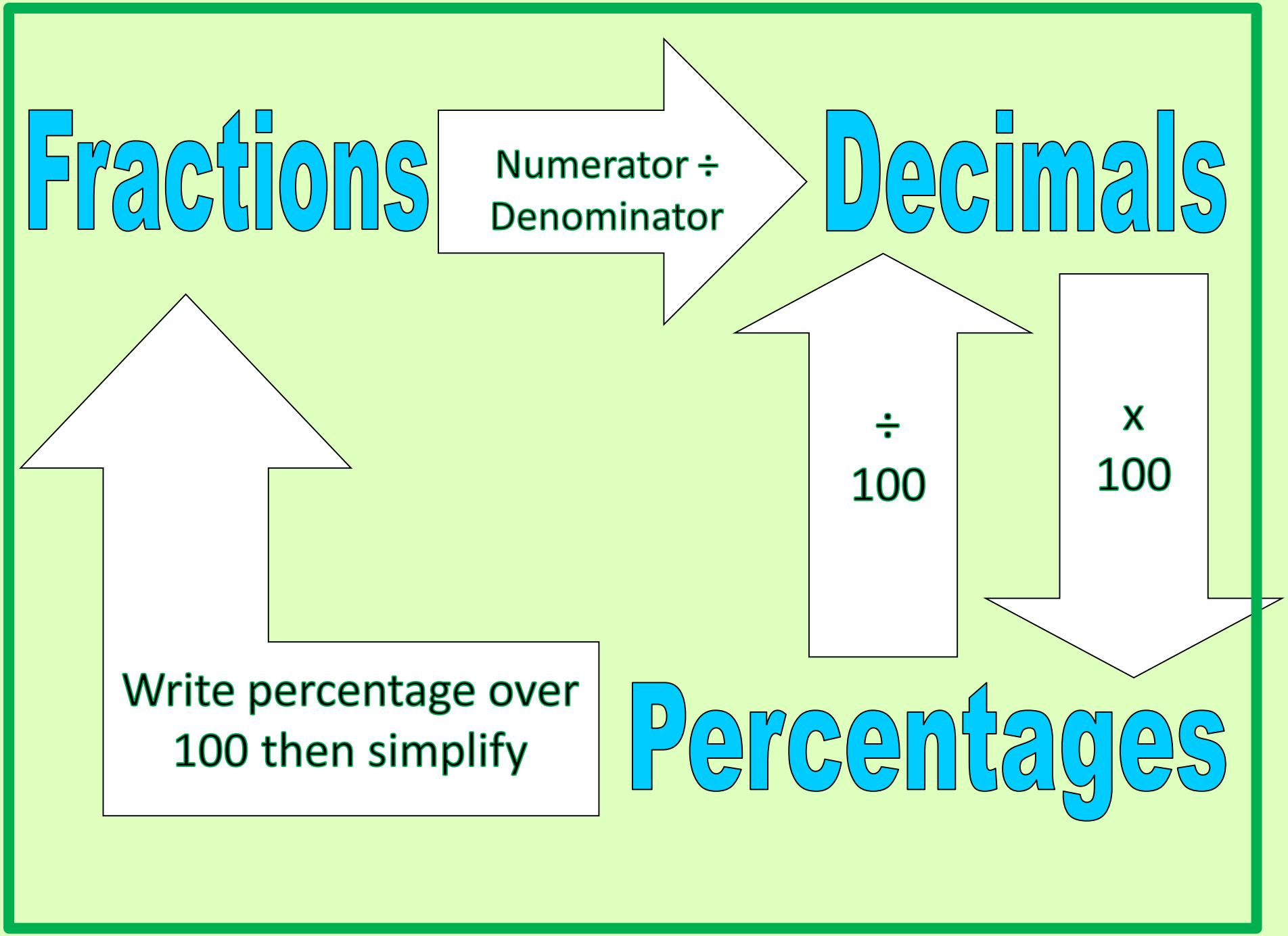
EXAMPLES:

a)55% = 0.55

b)34.5% = 0.345

c)75% = 0.75

d)97% = 0.97


Fractions
Numerator ÷ Denominator
Decimals
÷ 100
x 100
Write percentage over 100 then simplify
Percentages