Ordering decimal fractions
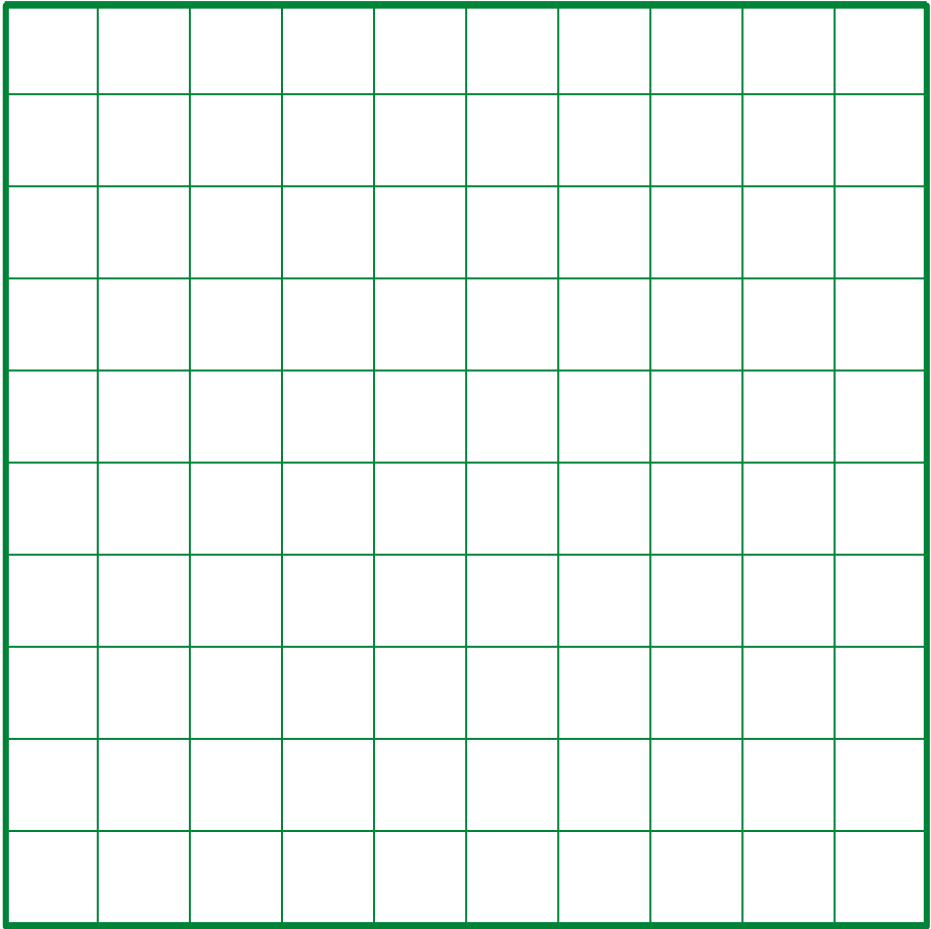
Mathematics

Mr Coward
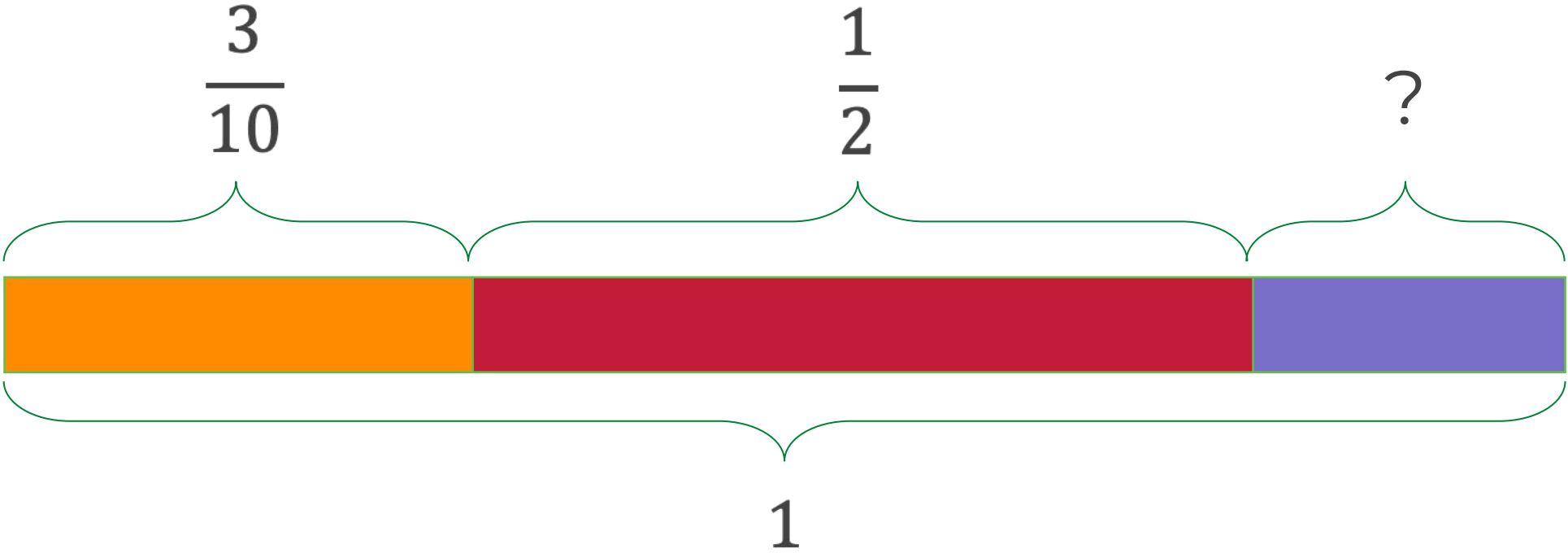
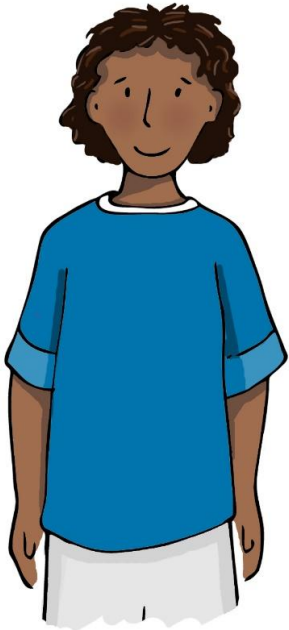# Try this

The bar and the square filled with one hundred smaller squares both represent 1.

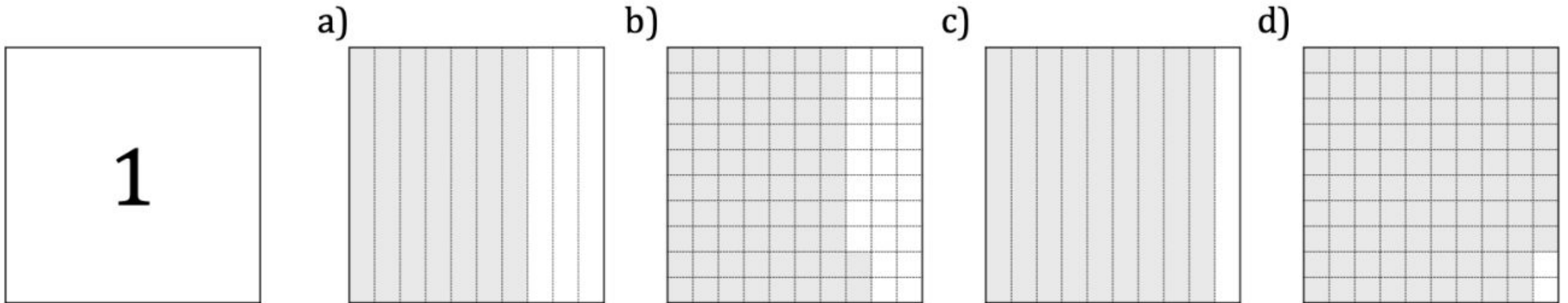$\frac{3}{10}$ $\frac{1}{2}$?

= 1

1

How could I shade the one hundred squares with the same fractions as the bar? Or using the bead string?

Independent task

1. For each diagram decide what **decimal** is represented by:

   i)   the shaded section

   ii)   the white section

                       a)   b)   c)   d)

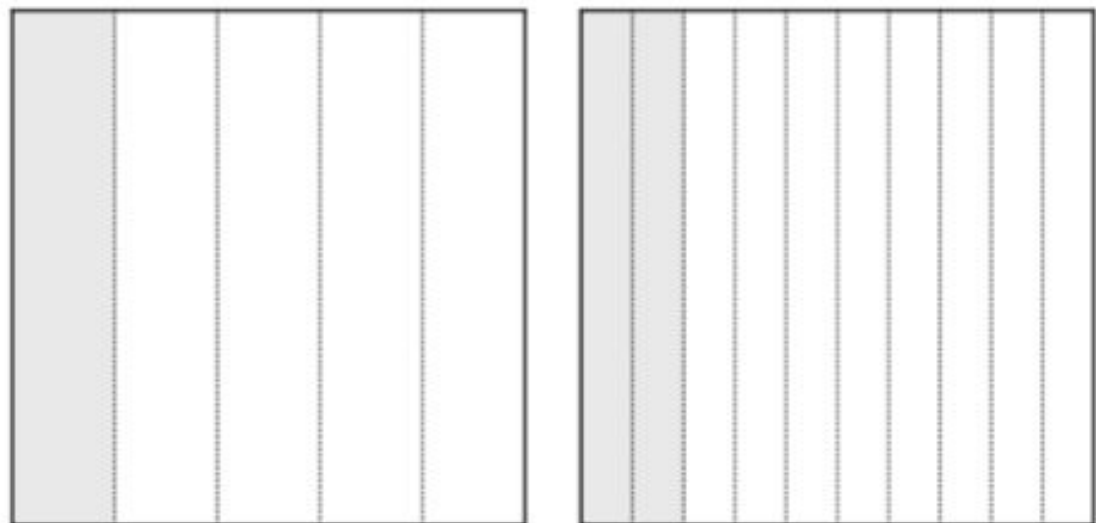   iii)   Place the four decimal fractions in ascending order.

Independent task

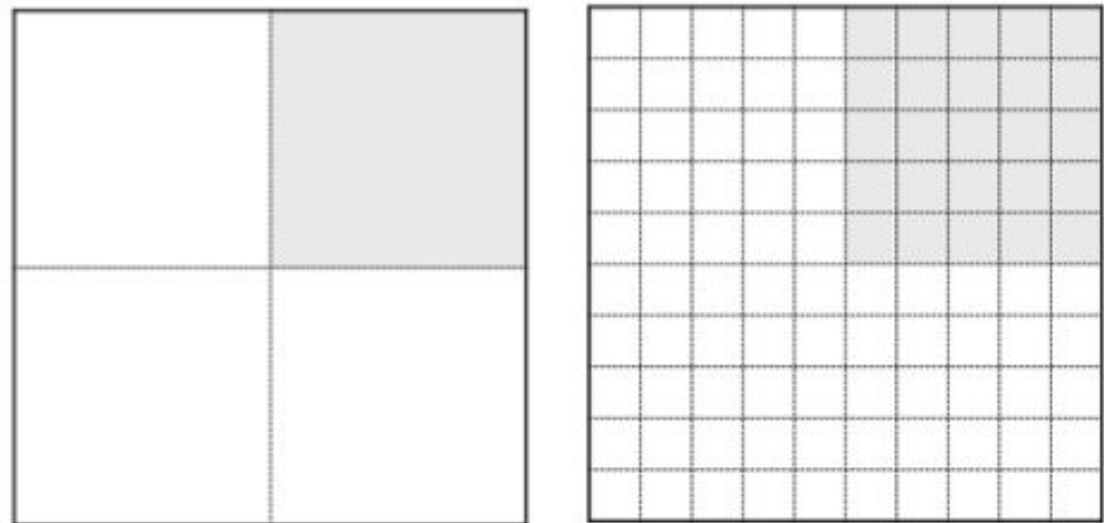2. Copy and complete the equivalent statements for:

i)   the shaded section
ii)   the white section

a)

$$\frac{\square}{5} = \frac{\square}{10} = \square.\square$$

b)

$$\frac{\square}{4} = \frac{\square}{100} = \square.\square\square$$

Independent task

3.

a) Copy and complete the following:

$$\frac{3}{10} = \boxed{}.\boxed{} \qquad \frac{31}{100} = \boxed{}.\boxed{}\boxed{} \qquad \frac{2}{5} = \frac{\boxed{}}{10} = \boxed{}.\boxed{}$$

$$\frac{17}{50} = \frac{\boxed{}}{100} = \boxed{}.\boxed{}\boxed{} \qquad \frac{8}{25} = \frac{\boxed{}}{100} = \boxed{}.\boxed{}\boxed{}$$
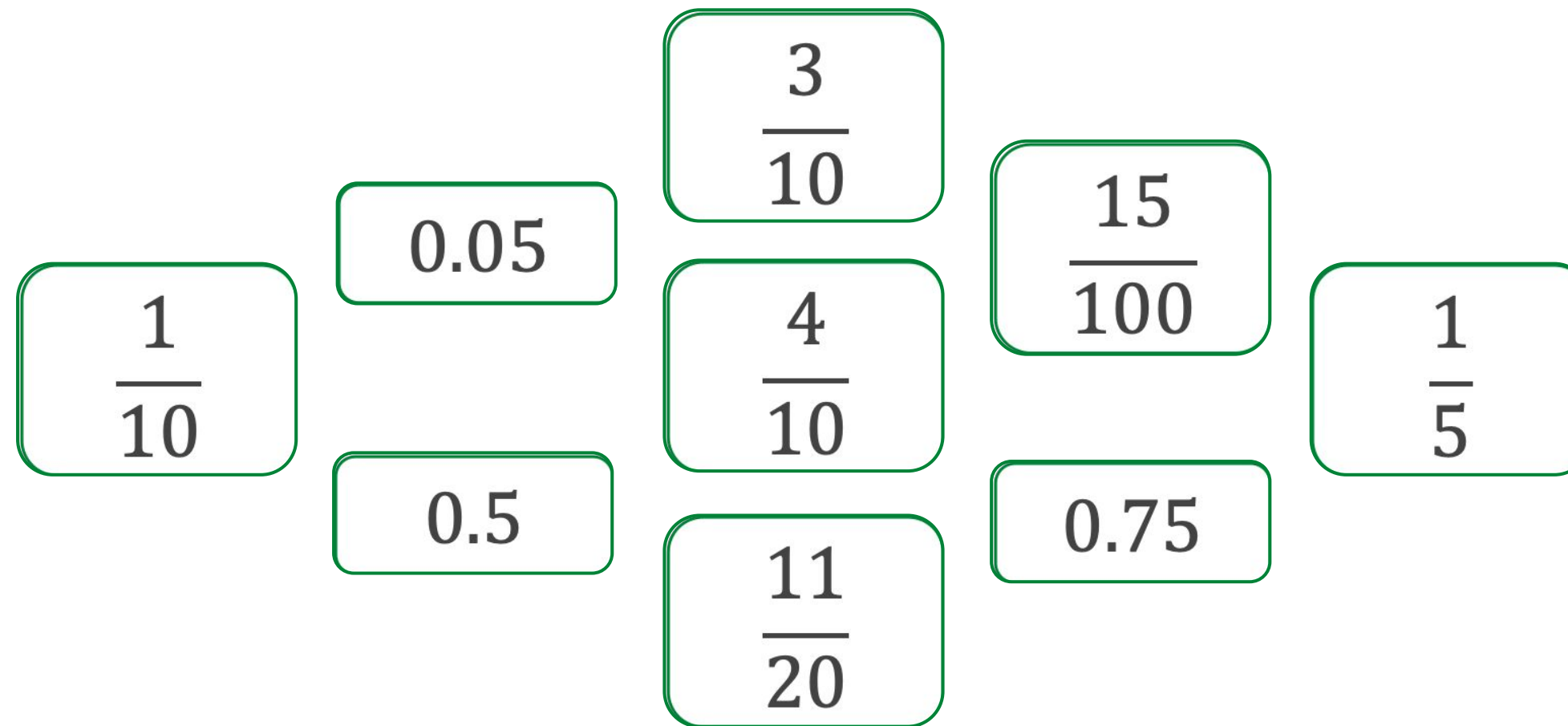
b) Write the fractions in **ascending** order

c) Find a fraction that lies between $\frac{31}{100}$ and $\frac{8}{25}$, write it in decimal form.

Explore

Put the cards below in ascending order.

$$\frac{3}{10}$$

0.05

$$\frac{15}{100}$$

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

$$\frac{4}{10}$$

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

0.5

0.75

$$\frac{11}{20}$$

The sum of the number cards above is 3.
They can be organized into **3 groups** each with a sum of 1.
Find these groups.