

Decimal Art



Decimal Dog is in charge of the stowaways on the ship until they can be dropped off at the next island. He has **one hundred animals** to remember!

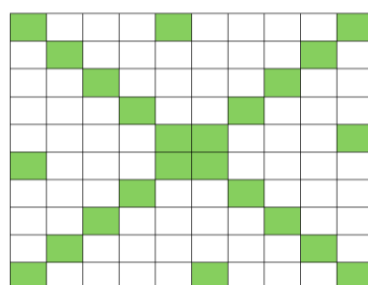
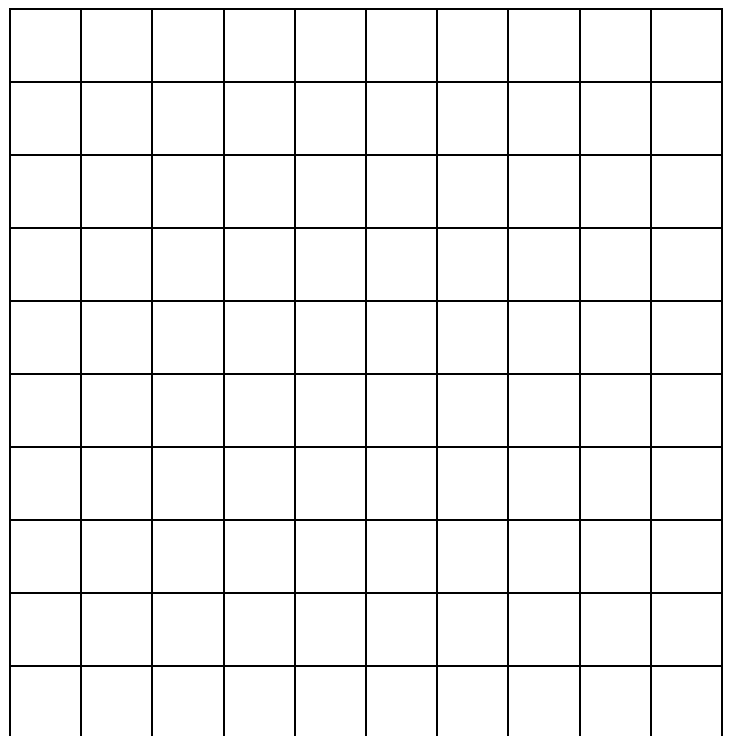
So he paints a picture to record what animals make up the **100**.

The stowaways are kept in cages on board the ship.

Each square on this **100 square grid** represents one animal in a cage.

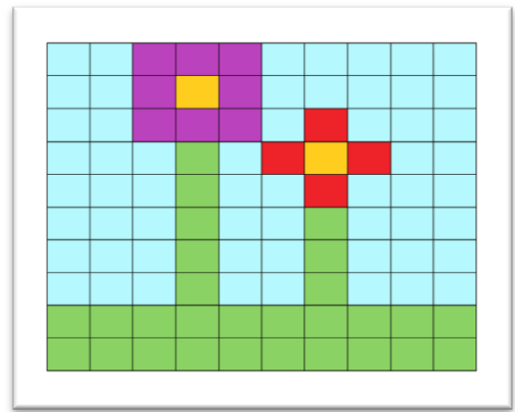
Decimal Dog gives each type of animal a colour. This helps him to record how many animals are on the ship AND create beautiful artwork!

If snakes were represented by the colour green and there were 24 snakes on board. He would colour 24 squares on the grid in green, as shown. →



When the **100** animals were made up of:

- 28 **snakes** = 0.28 as a decimal
- 8 **bats** = 0.08 as a decimal
- 2 **squirrels** = 0.02 as a decimal
- 4 **weasels** = 0.04 as a decimal
- 58 **rats** = 0.58 as a decimal



He made this Decimal Art →

So what is a decimal?

Whole numbers are numbers like 1, 2, 3, 4, 5, 6 and so on.

Decimal numbers let us represent numbers that are larger or smaller than whole numbers. The decimal point is followed by digits that show a value smaller than one.

For example: 0.5 is smaller than 1
11.6 is larger than 11 but smaller than 12

Can you think of an example?

We are using **100** as our whole number here to make Decimal Art.



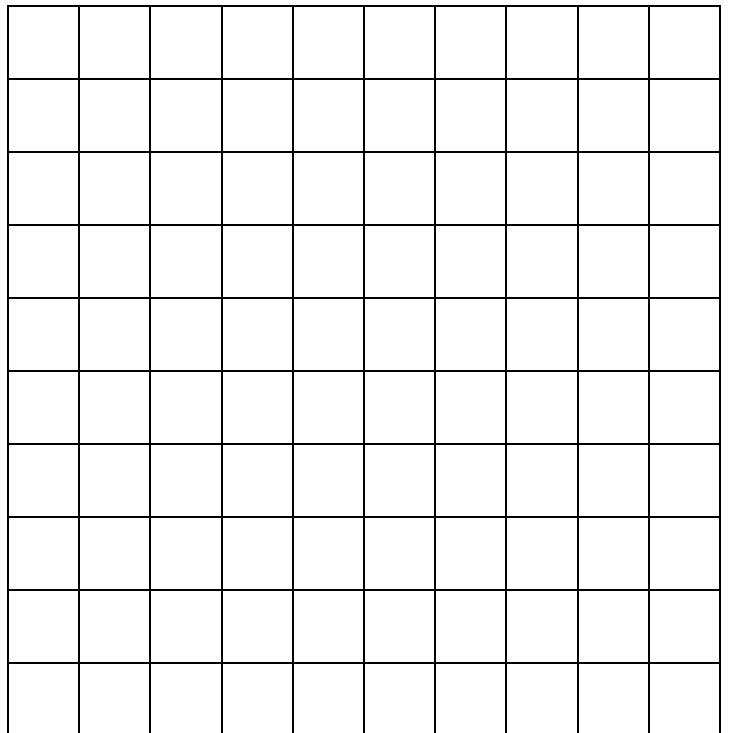
Decimal Dog says,
“Each small square represents .01 as a decimal.”



Fraction Fox says,
“Each small square represents $\frac{1}{100}$ as a fraction.”



Percentage Parrots say, “Each small square represents 1% as a percentage.”



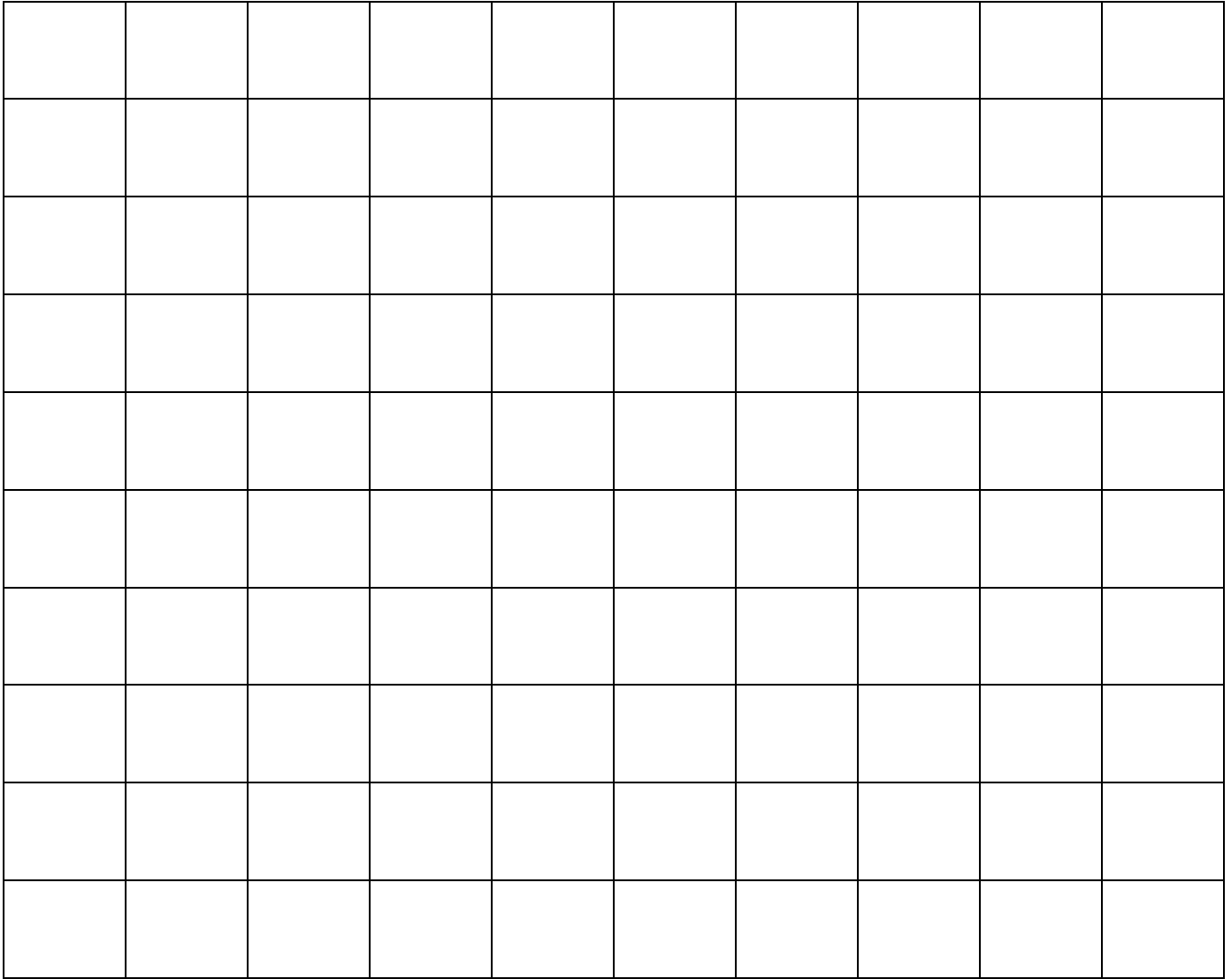
Can you work out what 2 small squares would represent?

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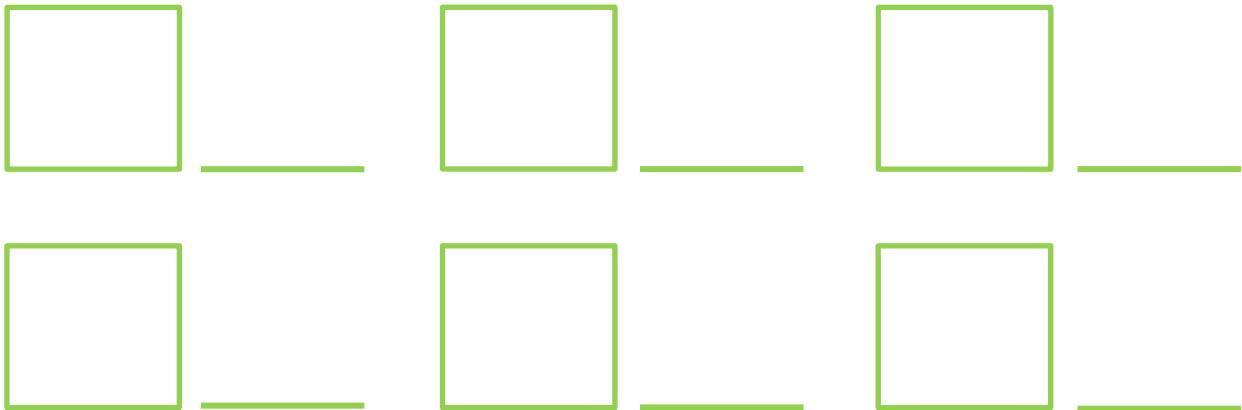
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My Decimal Art



What the colours represent as a decimal:



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