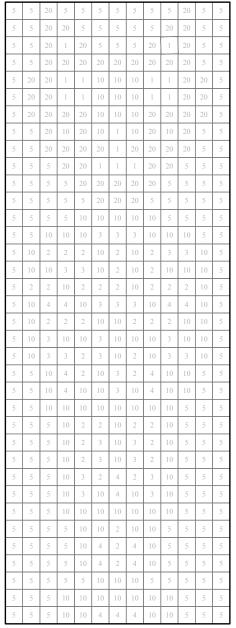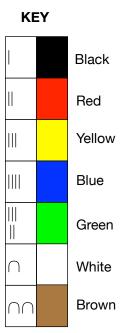# Colour By Egyptian Hieroglyph Pixel Puzzle

Pictures are stored in computers as numbers. Each number gives the colour of a small area or **pixel**. There are lots of ways numbers can be **represented**. The Ancient Egyptians had a simple way using hieroglyphs (symbols). In this puzzle, the picture uses decimal numbers but the key uses hieroglyphs.

Can you work out what the symbols in the key mean (see overleaf if not), and solve the puzzle? Once you have, create your own Hieroglyph pixel puzzle.

5	5	20	5	5	5	5	5	5	5	20	5	5
5	5	20	20	5	5	5	5	5	20	20	5	5
5	5	20	1	20	5	5	5	20	1	20	5	5
5	5	20	20	20	20	20	20	20	20	20	5	5
5	20	20	1	1	10	10	10	1	1	20	20	5
5	20	20	1	1	10	10	10	1	1	20	20	5
5	20	20	20	20	10	10	10	20	20	20	20	5
5	5	20	10	20	10	1	10	20	10	20	5	5
5	5	20	20	20	20	1	20	20	20	20	5	5
5	5	5	20	20	1	1	1	20	20	5	5	5
5	5	5	5	20	20	20	20	20	5	5	5	5
5	5	5	5	5	20	20	20	5	5	5	5	5
5	5	5	5	10	10	10	10	10	5	5	5	5
5	5	10	10	10	3	3	3	10	10	10	5	5
5	10	2	2	2	10	2	10	2	3	3	10	5
5	10	10	3	3	10	2	10	2	10	10	10	5
5	2	2	10	2	2	2	10	2	2	2	10	5
5	10	4	4	10	3	3	3	10	4	4	10	5
5	10	2	2	2	10	10	2	2	2	10	10	5
5	10	3	10	10	3	10	10	3	10	10	5	
5	10	3	3	2	3	10	2	10	3	3	10	5
5	5	10	4	2	10	3	2	4	10	10	5	5
5	5	10	4	10	10	3	10	4	10	10	5	5
5	5	10	10	10	10	10	10	10	10	5	5	5
5	5	5	10	2	2	10	2	2	10	5	5	5
5	5	5	10	2	3	10	3	2	10	5	5	5
5	5	5	10	2	3	10	3	2	10	5	5	5
5	5	5	10	3	2	4	2	3	10	5	5	5
5	5	5	10	3	10	4	10	3	10	5	5	5
5	5	5	10	10	10	10	10	10	10	5	5	5
5	5	5	5	10	10	2	10	10	5	5	5	5
5	5	5	5	10	4	2	4	10	5	5	5	5
5	5	5	5	10	4	2	4	10	5	5	5	5
5	5	5	5	5	10	10	10	5	5	5	5	5
5	5	5	10	10	10	10	10	10	10	5	5	5
5	5	5	10	10	4	4	4	10	10	5	5	5

KEY

Hieroglyph	Colour
		Black
||	Red
|||	Yellow
||||	Blue
||| / ||	Green
∩	White
∩∩	Brown

The Egyptians represented numbers 1 to 9 with a hieroglyph with that number of straight lines in a particular patterns (a bit like we do dots on a dice). The patterns make them easier to recognise. They used an upside down U shape for 10, two of these for 20, and so on.

I	1	∩	10
II	2	∩∩	20
III	3	∩∩ ∩	30
IIII	4	∩∩ ∩∩	40
III II	5	∩∩∩ ∩∩	50
III III	6	∩∩∩ ∩∩∩	60
IIII III	7	∩∩∩∩ ∩∩∩	70
IIII IIII	8	∩∩∩∩ ∩∩∩∩	80
III III III	9	∩∩∩ ∩∩∩ ∩∩∩	90