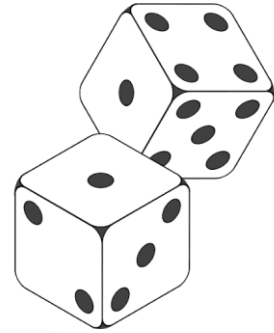


Creating Fractions! – Task 1

Resources needed:

- Plastic bottle caps/blocks or any other counters
- 2 dice
- Papers to write on.
- 6 x 6 Grid



Instructions:

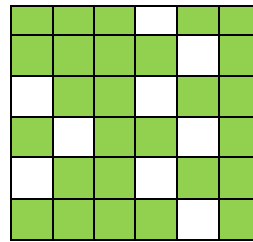
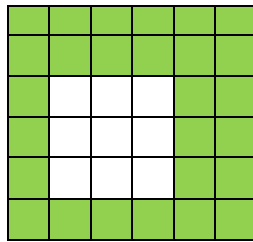
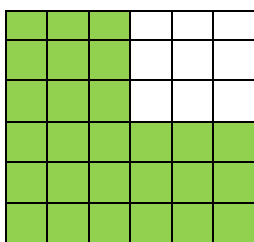
- Roll both dice.
- Arrange the two numbers you get on the dice into a proper fraction (smaller number as numerator, larger number as denominator).
- Write it down on a paper.
- Take the 6 x 6 grid.
- Represent this fraction on the grid with caps.

E.g. if you get a 4 and a 3 on the dice write it as $\frac{3}{4}$.

Then cover $\frac{3}{4}$ of the grid with caps.

$\frac{3}{4}$ of 36 spaces ($\frac{1}{4}$ of 36 = 9)

$\frac{3}{4}$ of 36 = 27



All three diagrams represent $\frac{3}{4}$ of the grid coloured green.

Note: not all fractions can be represented on this grid.

Observe: Which fractions can be represented on this grid?

Creating Fractions! –Task 2 Challenge

Resources needed:

- 6 x 6 Grid
- coloured bottle caps or blocks

Instructions:

- Write a number from 10 to 36 on a paper.
- Take that number of caps so that $\frac{1}{2}$ are red, $\frac{1}{3}$ are yellow and $\frac{1}{6}$ are blue.
Note: Not all numbers can be divided physically in these fractions.
- Display this on the grid.

Question:

- What is your number?
- How many are red, yellow and blue?
- Which numbers can be divided in these fractions?
- What do you observe?

Challenge:

Make a symmetrical pattern on the grid using the same caps.

What do you observe?