

Multiplication patterns

Worksheet

Mr Ward



Warm up - Missing values

Can you complete the calculations?

$$7 \times \square = 28$$

$$40 = \square \times 8$$

$$6 \times 9 = \square$$

$$42 = \square \times 7$$

$$\square \times 6 = 72$$

$$7 \times \square = 56$$

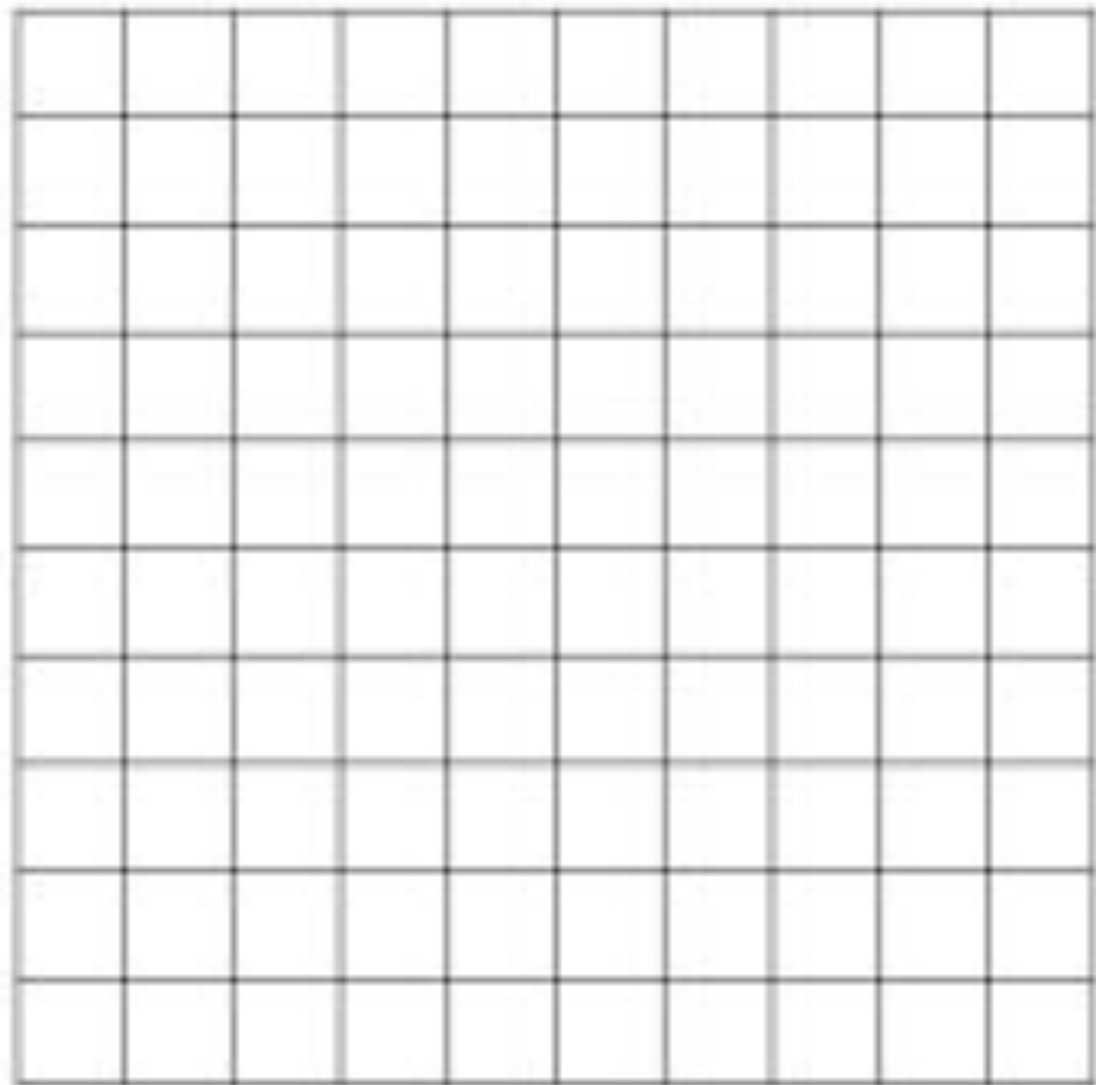
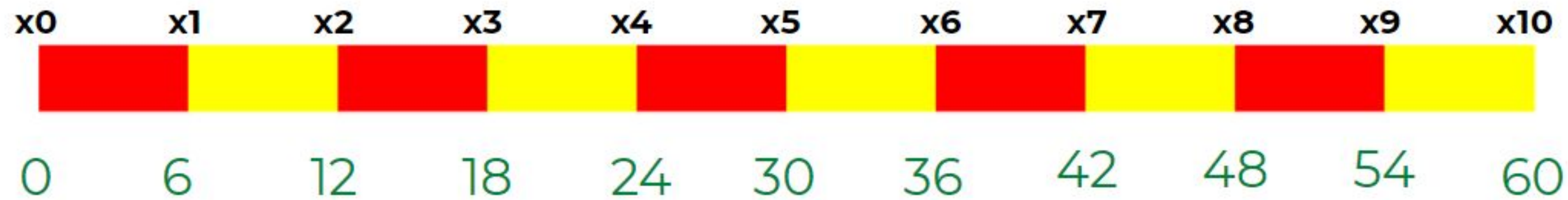
$$121 = 11 \times \square$$

$$9 \times 9 = \square$$



Using a counting stick to show times tables

Shading 10 x 10 grids



Shade all multiples of 6 in the grid

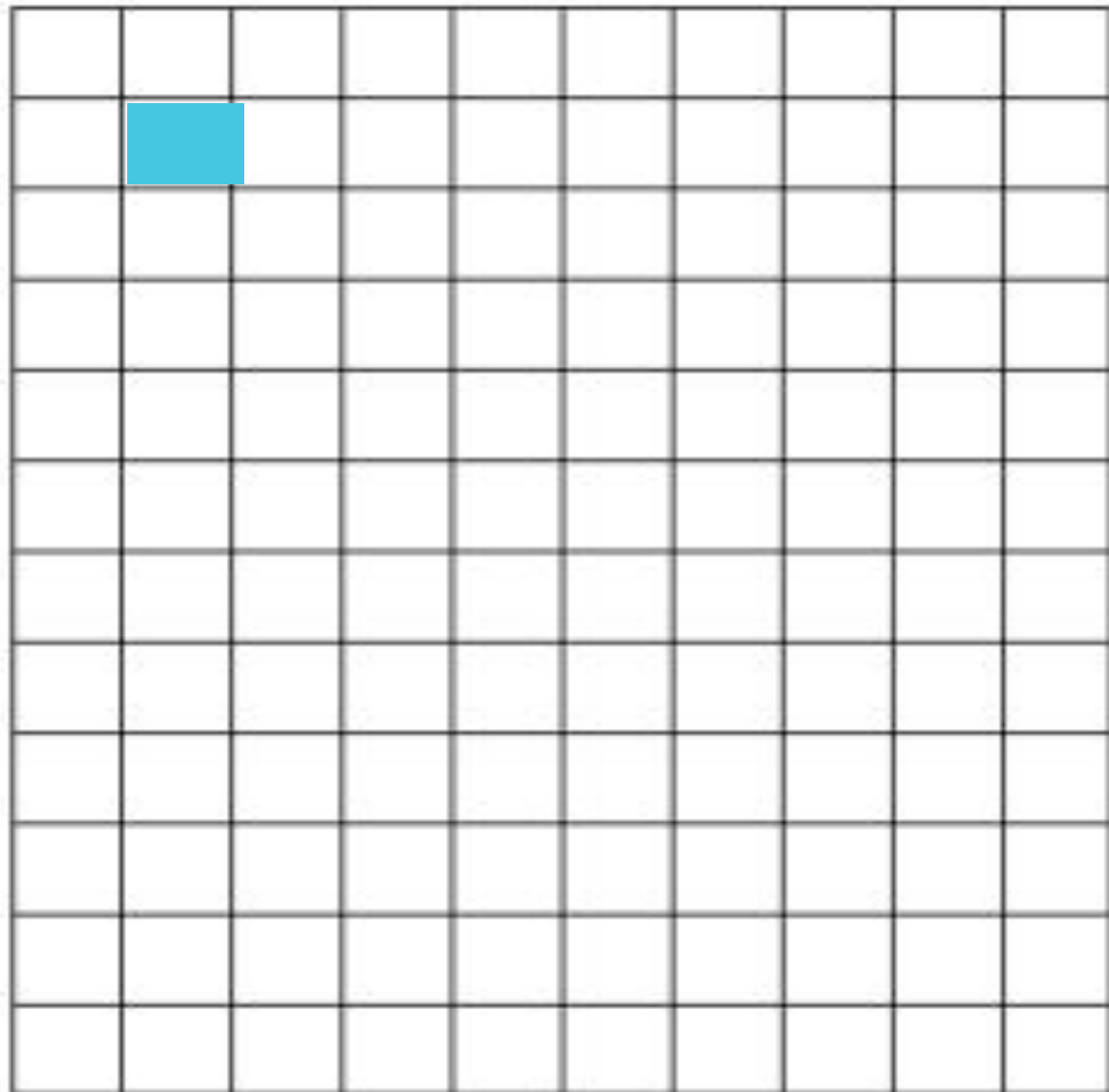
Continue beyond $10 \times 6 = 60$

What patterns do you notice?



Using a counting stick to show times tables

Shading 10 x 10 grids



Shade all multiples of 12 in the grid

What patterns do you notice?



Talk Task - Exploring multiplication patterns

- 1. Shade in the 10 x 10 grids for the 2x, 4x and 8x tables
- 2. Reflect on the following questions:

What do you notice? What's the same? What patterns exist?

2x multiplication table

4x multiplication table

8x multiplication table



Identifying multiplication patterns.

1. Shade in the 10 x 10 grids for the 3x, 7x, 11x and 12x tables
2. Compare the different multiplication tables
3. Consider the questions already asked such as:

What do you notice? What's the same? What patterns exist?

3x table

7x table

11x table

12x table



Identifying multiplication patterns.

3x table

7x table



Identifying multiplication patterns.

11x table

12x table



Challenge Slide

How many different ways can you complete the multiplications shown below?

$$\blacksquare \times \blacksquare = 24$$

$$\blacksquare \times \blacksquare = 50$$

$$\blacksquare \times \blacksquare = 32$$

$$\blacksquare \times \blacksquare = 75$$

$$\blacksquare \times \blacksquare = 44$$

$$\blacksquare \times \blacksquare = 100$$

