Multiplication patterns Worksheet

Mr Ward

Warm up - Missing values

Can you complete the calculations?

$7 \times \boxed{} = 28$ $40 = \boxed{} \times 8$ $6 \times 9 = \boxed{}$ $42 = \boxed{} \times 7$

$\boxed{} \times 6 = 72$ $7 \times \boxed{} = 56$ $121 = 11 \times \boxed{}$ $9 \times 9 = \boxed{}$

Using a counting stick to show times tables
Shading 10 x 10 grids

x0	x1	x2	x3	x4	x5	x6	x7	x8	x9	x10

| 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |

Shade all multiples of 6 in the grid
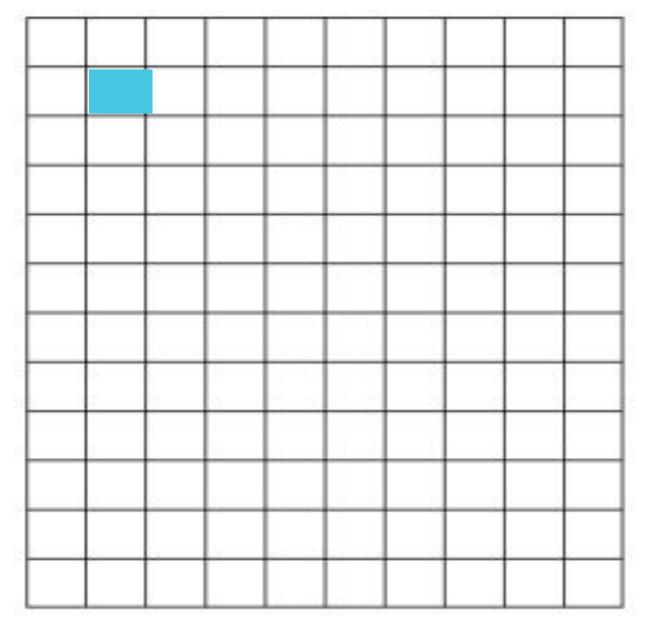
Continue beyond 10 x 6 = 60

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
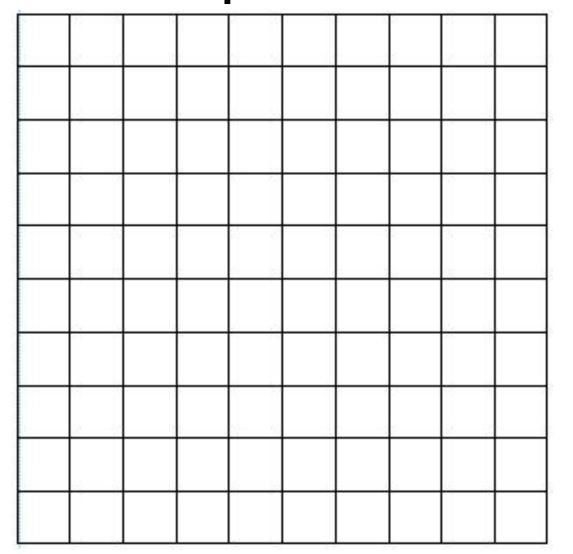
What patterns do you notice?
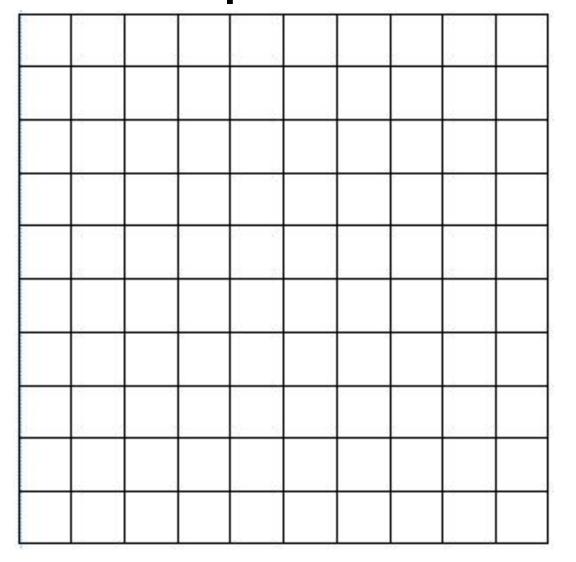
4

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:

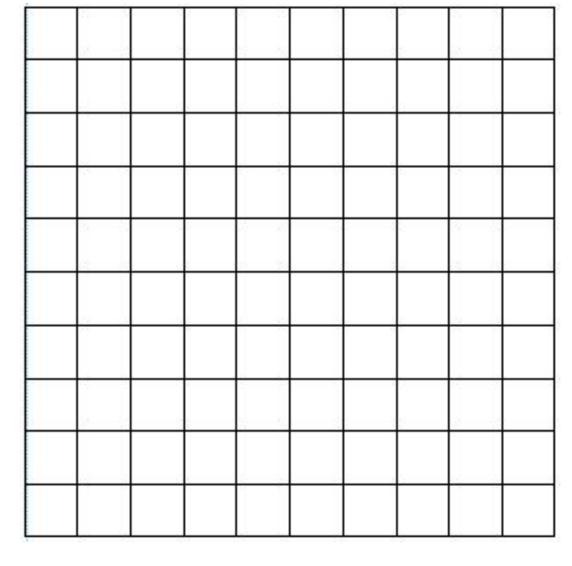**What do you notice? What's the same? What patterns exist?**

2x multiplication table
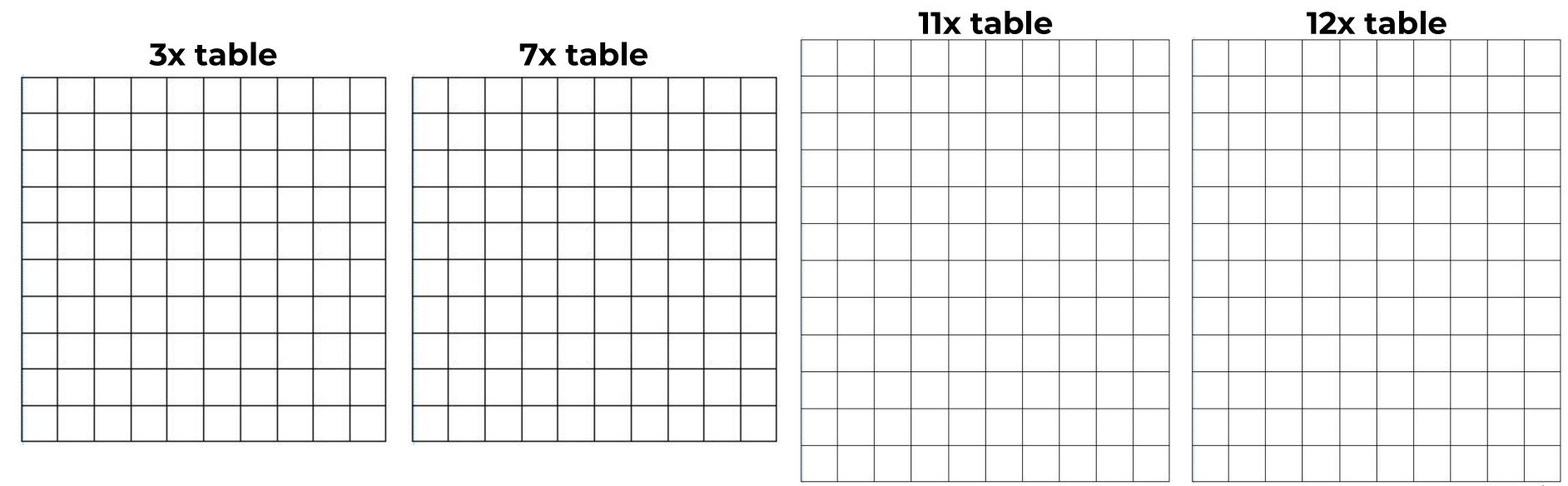
4x multiplication table

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
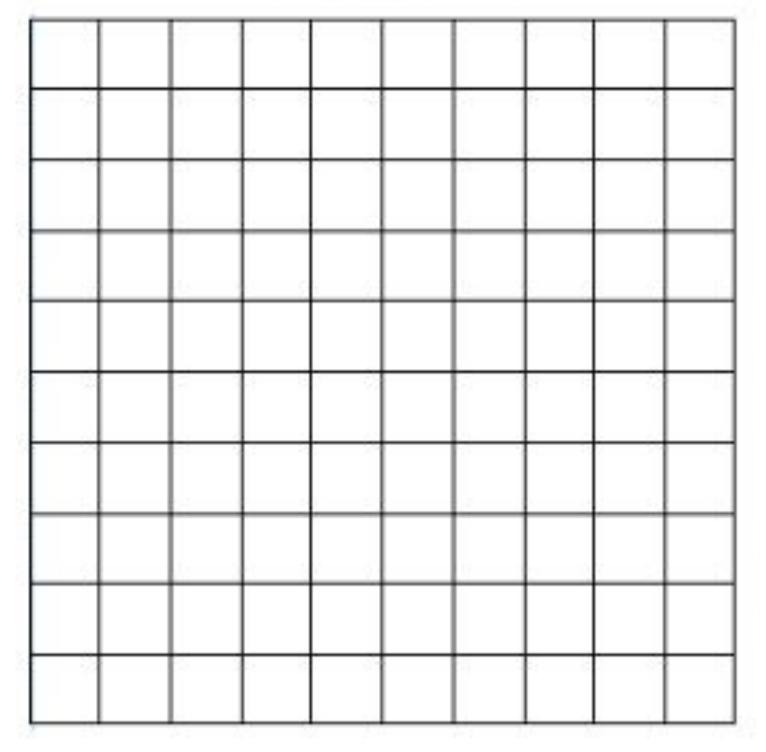3. Consider the questions already asked such as:

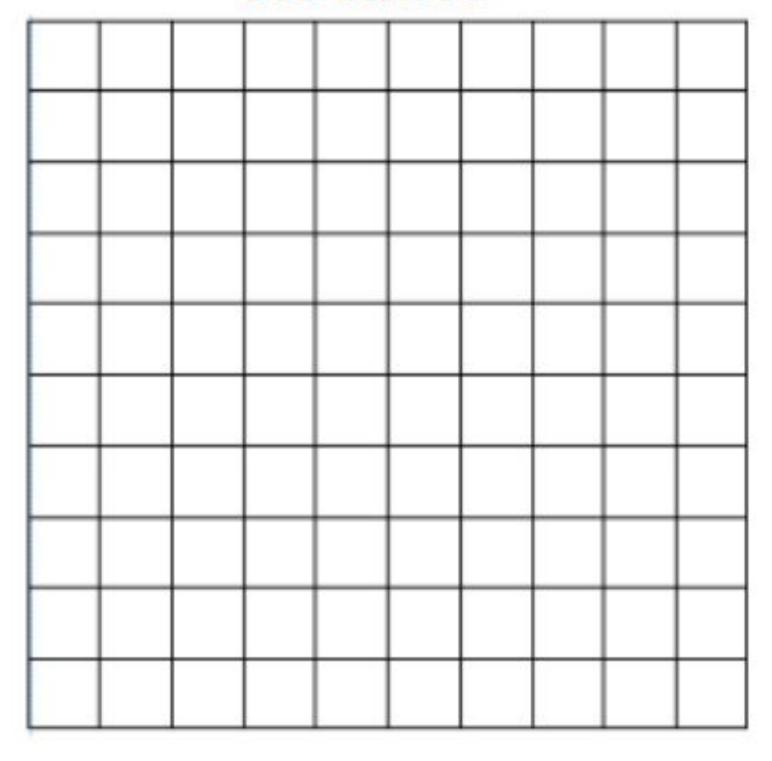**What do you notice? What's the same? What patterns exist?**

3x table

7x table

11x table

12x table

Identifying multiplication patterns.
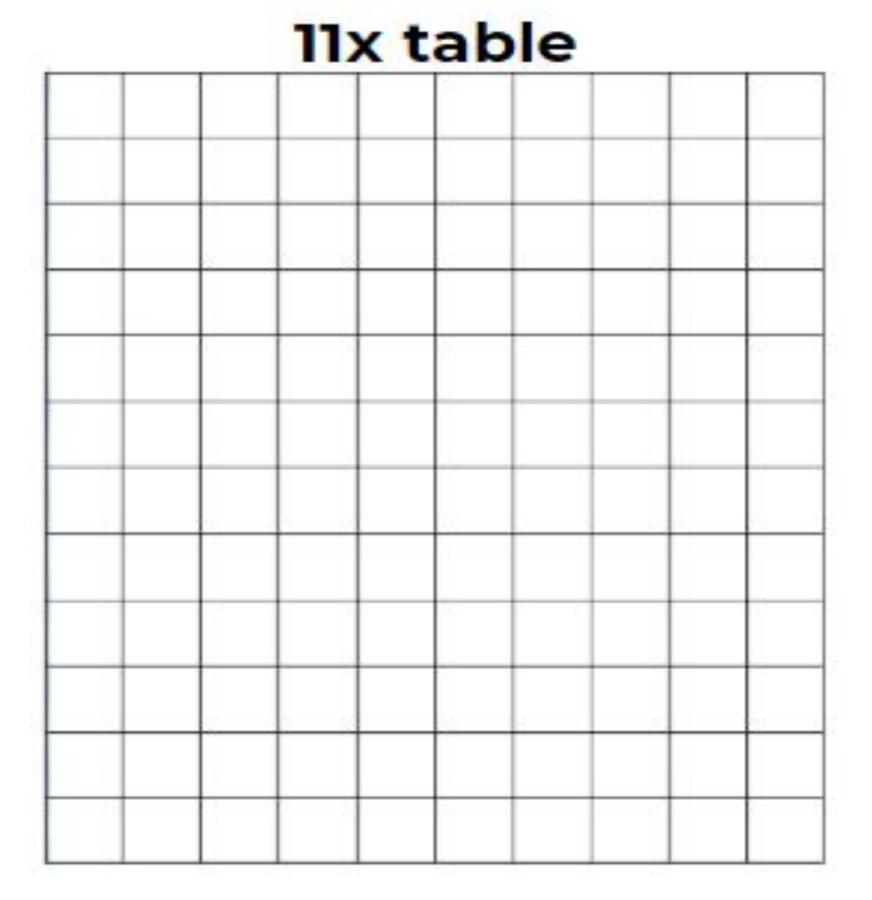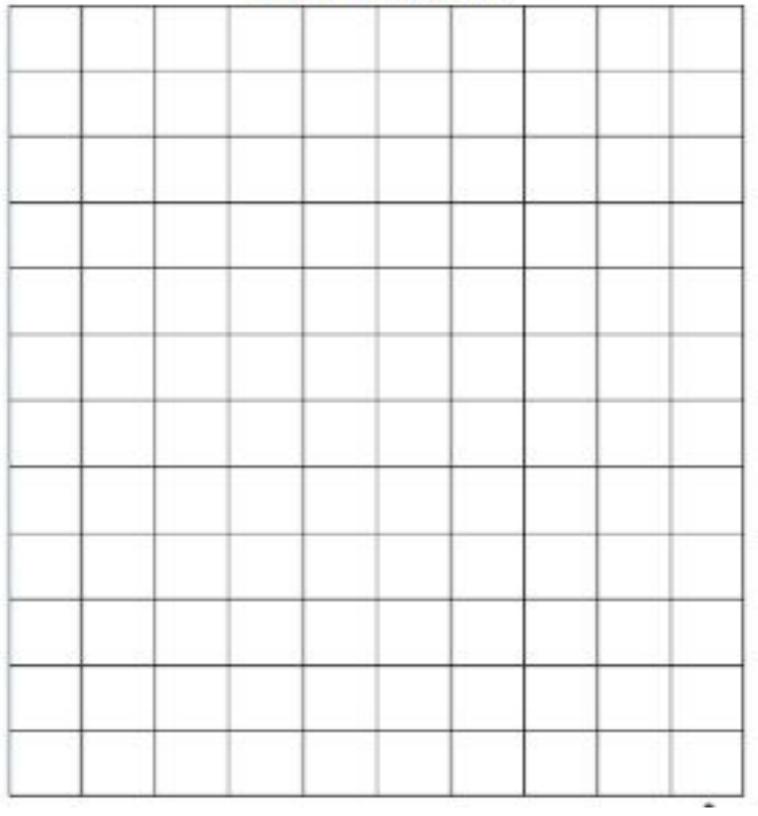
3x table

7x table

Identifying multiplication patterns.

11x table

12x table

Challenge Slide

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

$\blacksquare \times \blacksquare = 24$

$\blacksquare \times \blacksquare = 50$

$\blacksquare \times \blacksquare = 32$

$\blacksquare \times \blacksquare = 75$

$\blacksquare \times \blacksquare = 44$

$\blacksquare \times \blacksquare = 100$