

Dynamic Number Grids— Clues You Can Use

Name: _____

Use your detective skills to complete number grids that are missing information.

EXPLORE

1. Open **Dynamic Number Grids--Clues You Can Use.gsp**. Go to the “Grid” page.

The pictures below are not complete. Each one picture below shows only a small part of a larger grid on the screen. For each grid, find a value for *count by (orange)*, *count by (blue)*, and *columns* so that your grid on screen matches the grid in the picture. (In these pictures, light gray squares are orange and dark gray squares are blue.)

Use your Sketchpad model to check your work.

Some grids may have more than one correct answer.

a.

count by (orange) = _____

count by (blue) = _____

columns = _____

1	2	3
10	11	12
19	20	21
28	29	30

b.

count by (orange) = _____

count by (blue) = _____

columns = _____

15	16	17
22	23	24
29	30	31
36	37	38

c.

count by (orange) = _____

count by (blue) = _____

columns = _____

29	30	31
41	42	43
53	54	55

- d.
count by (orange) = _____
count by (blue) = _____
columns = _____

36	37	38	39	40
41	42	43	44	45
46	47	48	49	50

- e.
count by (orange) = _____
count by (blue) = _____
columns = _____

45	46	47	48	49
58	59	60	61	62
71	72	73	74	75

2. The pictures below are not complete.

The columns are all showing, but the numbers are missing, and some of the rows have been cut off. Only the multiples of *count by (blue)* are showing.

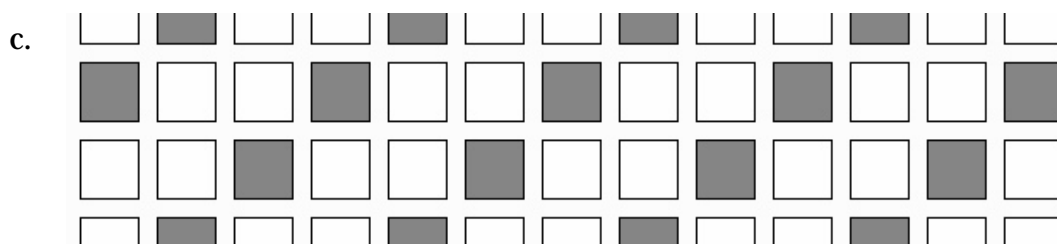
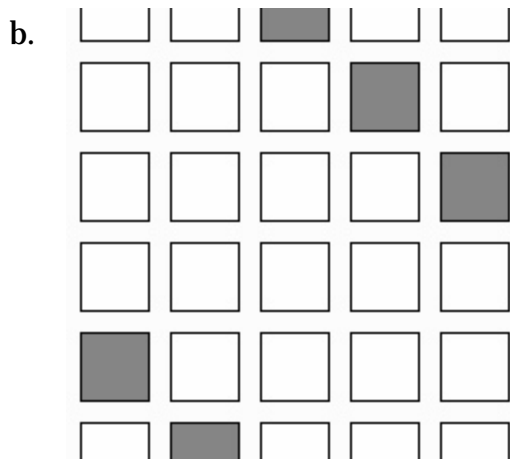
Write the missing numbers in the squares.

There is more than one way to solve each grid.

Use your Sketchpad model to check your work.

a.

■	□	■	□	■	□	■
□	■	□	■	□	■	□
■	□	■	□	■	□	■
□	■	□	■	□	■	□



EXPLORE MORE

- Go to the page “Make Your Own.” While your partner looks away, press *Show Values*. Follow the directions on screen to create puzzles like the ones you solved in question 1.