

Connection

In Section 1 (Teaching the Lesson), students are introduced to the **Products Table**. Have students use Digi Blocks and the array platform to build and record a facts table.

Materials for small groups

- 1 array platform or **Array Work Mat** sheet from Appendix p. 87
- 120 single blocks and small holders
- 1 **Multiplication Facts** activity sheet (next page) per student

Lesson

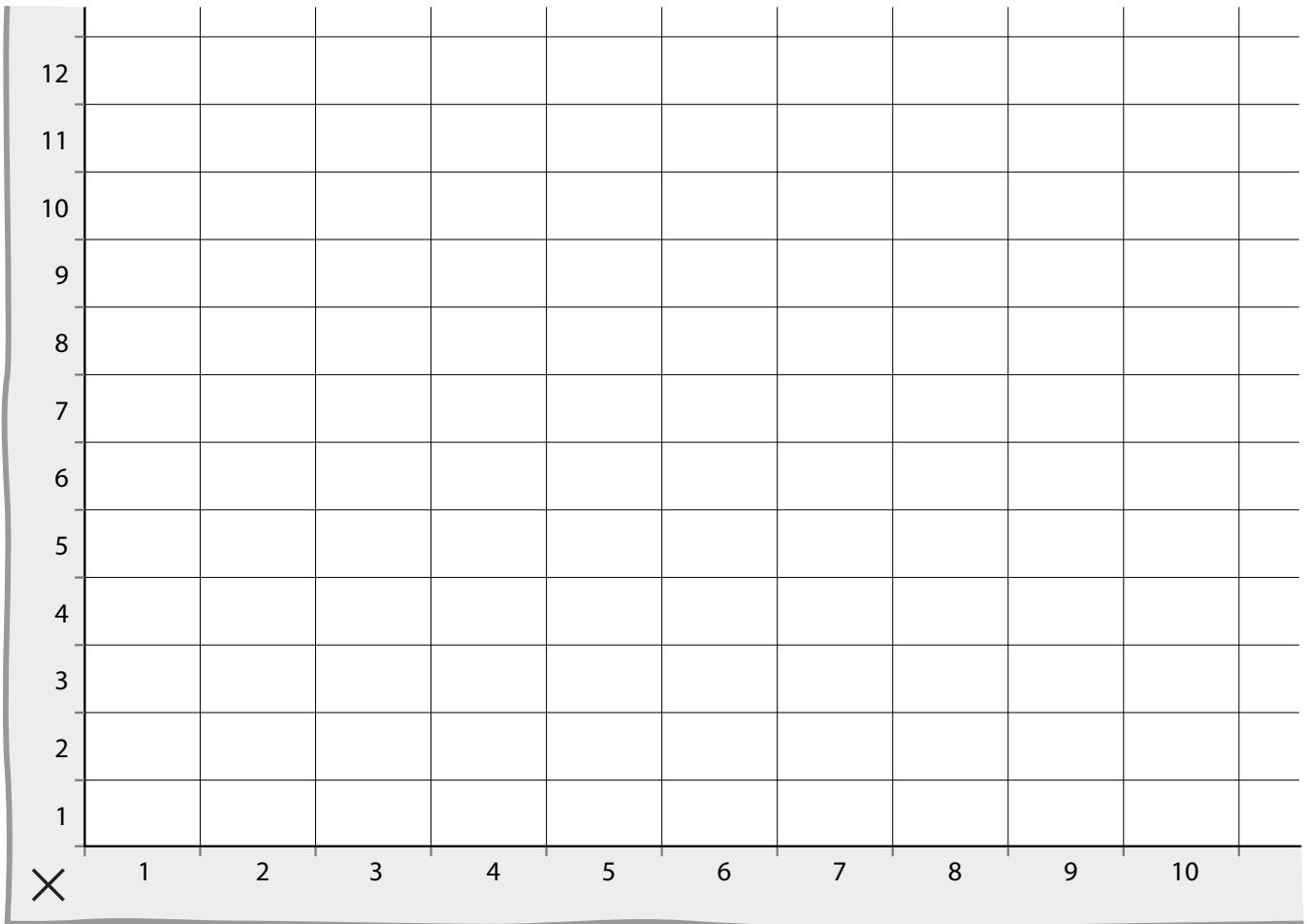
- Have each group put one block in the corner (first column, first row) of their array mat. As a class write the total for a 1×1 array in the first cell of the activity sheet.
- Place a second block in the second column, and write the product of a 1×2 array (2) in the cell. Continue until the entire row to 10 (1×10) is complete. Remove the blocks.
- Have students put two blocks in the first column, second column, and so on, and record each product in the matching cells. Repeat with the $3 \times$ facts until groups are ready to continue on their own.
- Students complete the table of multiplication facts to 10×10 .
- To check for understanding, have students make an 8×7 array with blocks. Have them explain methods for finding the total number of blocks.

10	10	20	30	40	50	60	70	80	90	100
9	9	18	27	36	45	54	63	72	81	90
8	8	16	24	32	40	48	56	64	72	80
7	7	14	21	28	35	42	49	56	63	70
6	6	12	18	24	30	36	42	48	54	60
5	5	10	15	20	25	30	35	40	45	50
4	4	8	12	16	20	24	28	32	36	40
3	3	6	9	12	15	18	21	24	27	30
2	2	4	6	8	10	12	14	16	18	20
1	1	2	3	4	5	6	7	8	9	10
×	1	2	3	4	5	6	7	8	9	10

Name _____

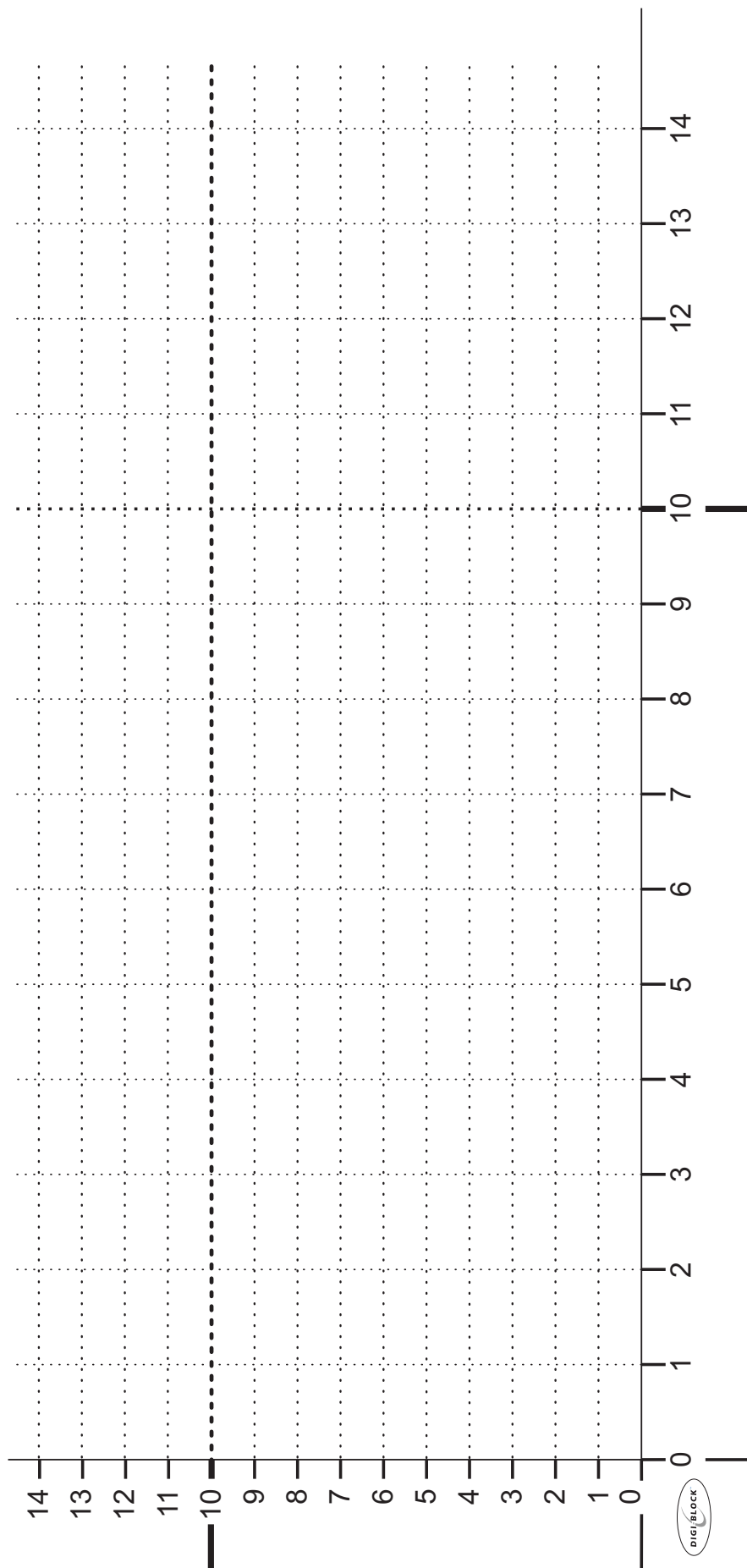
Multiplication Facts

ACTIVITY SHEET



Name _____

Array Work Mat



Name _____

Parts and Total

ACTIVITY SHEET

Total	Part	Part
-------	------	------