

Finding Patterns in the Multiplication Table

NCTM Standards 1, 2, 6, 7, 8, 9

- 1 Fill in the table. Use patterns you know to help you.

×	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0												
1		1											
2			4										
3				9									
4													
5													
6													
7													
8													
9													
10													

Use facts in the table to complete these number sentences.

2 $28 \div 4 = \underline{\quad}$

3 $55 \div 11 = \underline{\quad}$

4 $72 \div 6 = \underline{\quad}$

5 $65 \div 5 = \underline{\quad}$

6 $108 \div 9 = \underline{\quad}$

7 $81 \div 9 = \underline{\quad}$



8 There are 27 students in a class. No more than 6 students may ride in each van. How many vans are needed to take all the students on a field trip?

Tell or show how you know.

Write the fact family that uses the given numbers.

9 6, 48, 8

$$6 \times 8 = \underline{\quad}$$

$$\underline{\quad} \times 8 = \underline{\quad}$$

$$48 \div 6 = \underline{\quad}$$

$$\underline{\quad} \div 6 = \underline{\quad}$$

10 7, 9, 63

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

11 54, 9, 6

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

12 7, 56, 8

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

Challenge

13 8, 64, 8

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

14 14, 126, 9

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$