



Hands On: Use a Multiplication Table to Divide

CA Standard
KEY NS 2.3

Use the multiplication table at the right to solve each problem.

1. What two division sentences describe the row and column in the multiplication table that meet at 42?

2. What is the dividend in each of your number sentences for Problem 1? Without looking at the multiplication table, how do you know that this dividend appears somewhere else in the table?

| × | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----|---|----|----|----|----|----|-----------|----|----|----|-----|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 2 | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 3 | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| 4 | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| 5 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 6 | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| 7 | 0 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 |
| 8 | 0 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |
| 9 | 0 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |
| 10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

3. Nancy says that 0 is written once in every row and column because the quotient of any number divided by 0 is 0. What's wrong with what Nancy says?

5. Suppose the multiplication table also included 11 and 12 as factors. How many more times would 12 appear as a dividend in the table?

4. I am a square number dividend. I am an odd number. I appear more than once in the table. What dividend am I?

6. How many different division problems can you solve with the 10×10 multiplication table if you do not include problems with a dividend of 0?
