Lesson 12: Division of Integers

Problem Set

1. Find the missing values in each column.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column A** |  | **Column B** |  | **Column C** |  | **Column D** |  |
| $$ 48÷4=$$ |  | $$24÷4=$$ |  | $$ 63÷ 7=$$ |  | $$ 21÷7=$$ |  |
| $$-48÷(-4)=$$ |  | $$ -24÷\left(-4\right)=$$ |  | $$-63÷\left(-7\right)=$$ |  | $$-21÷\left(-7\right)=$$ |  |
| $$-48÷4=$$ |  | $$-24÷4=$$ |  | $$-63÷7=$$ |  | $$-21÷7=$$ |  |
| $$ 48÷\left(-4\right)=$$ |  | $$ 24÷\left(-4\right)=$$ |  | $$63÷\left(-7\right)=$$ |  | $$21÷\left(-7\right)=$$ |  |

1. Describe the pattern you see in each column’s answers in Problem 1, relating it to the problems’ divisors and dividends. Why is this so?
2. Describe the pattern you see between the answers for Columns A and B in Problem 1 (e.g., compare the first answer in Column A to the first answer in Column B; compare the second answer in Column A to the second answer in Column B). Why is this so?
3. Describe the pattern you see between the answers for Columns C and D in Problem 1. Why is this so?