Exploring Integer Division

**Number**

**Unit 2 Line Master 4a**

1. Complete this chart of integer products.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **×** | –4 | –3 | –2 | –1 | 0 | 1 | 2 | 3 | 4 |
| –4 |  |  |  |  |  |  |  |  |  |
| –3 |  |  |  |  |  |  |  |  |  |
| –2 |  |  |  |  |  |  |  |  |  |
| –1 |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |

2. Use the chart to write two different division statements
 for each of these numbers.
 For example, for 10, statements could be 10 ÷ 5 = 2
 and 10 ÷ (–5) = –2.

|  |  |  |  |
| --- | --- | --- | --- |
|  a) 9 | b) 12 | c) 6 | d) 0 |
|  e) –6  | f) –8 | g) –1 | h) –16 |

Exploring Integer Division (cont’d)

**Number**

**Unit 2 Line Master 4b**

3. a) What do you notice when a positive integer is divided

 by a positive integer? by a negative integer?

 b) What do you notice when a negative integer is divided

 by a negative integer? by a positive integer?