

**Exploring Integer Division**

1. Complete this chart of integer products.

| <b>×</b>  | <b>-4</b> | <b>-3</b> | <b>-2</b> | <b>-1</b> | <b>0</b> | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> |
|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| <b>-4</b> |           |           |           |           |          |          |          |          |          |
| <b>-3</b> |           |           |           |           |          |          |          |          |          |
| <b>-2</b> |           |           |           |           |          |          |          |          |          |
| <b>-1</b> |           |           |           |           |          |          |          |          |          |
| <b>0</b>  |           |           |           |           |          |          |          |          |          |
| <b>1</b>  |           |           |           |           |          |          |          |          |          |
| <b>2</b>  |           |           |           |           |          |          |          |          |          |
| <b>3</b>  |           |           |           |           |          |          |          |          |          |
| <b>4</b>  |           |           |           |           |          |          |          |          |          |

2. Use the chart to write two different division statements for each of these numbers.

For example, for 10, statements could be  $10 \div 5 = 2$   
and  $10 \div (-5) = -2$ .

a) 9                      b) 12                      c) 6                      d) 0

e) -6                      f) -8                      g) -1                      h) -16

Name \_\_\_\_\_ Date \_\_\_\_\_

Number  
Unit 2 Line Master 4b

## Exploring Integer Division (cont'd)

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?