Integer Multiplication and Division
# Integer Multiplication

<table>
<thead>
<tr>
<th>SAME signs...</th>
<th>DIFFERENT signs...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals a POSITIVE</td>
<td>Equals a NEGATIVE</td>
</tr>
<tr>
<td>+ × + = +</td>
<td>+ × - = -</td>
</tr>
<tr>
<td>- × - = +</td>
<td>- × + = -</td>
</tr>
</tbody>
</table>
## INTEGER DIVISION

<table>
<thead>
<tr>
<th>SAME signs... Equals a POSITIVE</th>
<th>DIFFERENT signs... Equals a NEGATIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>$+ \div + = +$</td>
<td>$+ \div - = -$</td>
</tr>
<tr>
<td>$- \div - = +$</td>
<td>$- \div + = -$</td>
</tr>
</tbody>
</table>
There aren't any tricky rules for multiplication and division of integers...

Let's say it together....

SAME signs = POSITIVE
DIFFERENT signs = NEGATIVE
A Way To Remember the Signs for Multiplying and Dividing

Think of shoes....

Do they match? Or do you have one of each?

MATCHING

NOT MATCHING

When shoes match...that is a **POSITIVE** thing
When shoes don't match...that is a **NEGATIVE** thing

**SAME GOES WITH THE SIGNS OF YOUR INTEGERS!!!**
Time For
WHITEBOARD
Practice!!
Solve each expression using multiplication or division.

-6(-12) = _______  -72(-36) = _______

-624 ÷ -3 = _______

72 ÷ -9 = _______  10 (-240) = _______

729 ÷ -9 = _______

125 ÷ 5 = _______
EXCELLENT JOB

Pizzaz Bridge to Algebra pg. 32