

# *Integer Multiplication and Division*



# INTEGER MULTIPLICATION

<b>SAME signs... Equals a POSITIVE</b>	<b>DIFFERENT signs... Equals a NEGATIVE</b>
$+ \times + = +$	$+ \times - = -$
$- \times - = +$	$- \times + = -$

# INTEGER DIVISION

<b>SAME signs...</b> <b>Equals a POSITIVE</b>	<b>DIFFERENT signs...</b> <b>Equals a NEGATIVE</b>
$+\div + = +$	$+\div - = -$
$-\div - = +$	$-\div + = -$

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.

$$-6(-12) = \underline{\hspace{2cm}}$$

$$-72(-36) = \underline{\hspace{2cm}}$$

$$-624 \div -3 = \underline{\hspace{2cm}}$$

$$72 \div -9 = \underline{\hspace{2cm}}$$

$$10(-240) = \underline{\hspace{2cm}}$$

$$729 \div -9 = \underline{\hspace{2cm}}$$

$$125 \div 5 = \underline{\hspace{2cm}}$$

EXCELLENT



JOB



!!!!!!!!!!!!

PizzaZ Bridge to Algebra pg. 32