

Learning Goal:

By the end of this lesson I should be able to Multiply a positive number and a negative number together, WITHOUT the use of a calculator (technology).

- When we multiply a positive number and a negative number together, the final product (result) ends up being a negative value.
- $(+) \times (-) = (-)$

Example Strategies: Find the product of $(9)(-8)$

<u>Number Model</u>	<u>Area Model</u>						
$(9)(-8)$	$(-5) + (-3)$						
$= (-8)+(-8)+(-8)+(-8)+(-8)+(-8)+(-8)+(-8)+(-8)$	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="padding: 5px;">5</td> <td style="padding: 5px; text-align: center;">-25</td> <td style="padding: 5px; text-align: center;">-15</td> </tr> <tr> <td style="padding: 5px;">4</td> <td style="padding: 5px; text-align: center;">-20</td> <td style="padding: 5px; text-align: center;">-12</td> </tr> </table>	5	-25	-15	4	-20	-12
5	-25	-15					
4	-20	-12					
$= (-40)+(-16)+(-16)$							
$= -72$	$= -72$						

Skills Practice: Find the product of the following:

(a) $(3)(-2)$ (b) $(-9)(12)$ (c) $(-14)(8)$

(d) $(-12)(18)$ (e) $(5)(-7)(2)$ (d) $(-1)(4)(13)$