

Name: _____

Date: _____

Learning Goal 1.2	I can multiply and divide integers.
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Integer 1 × Integer 2

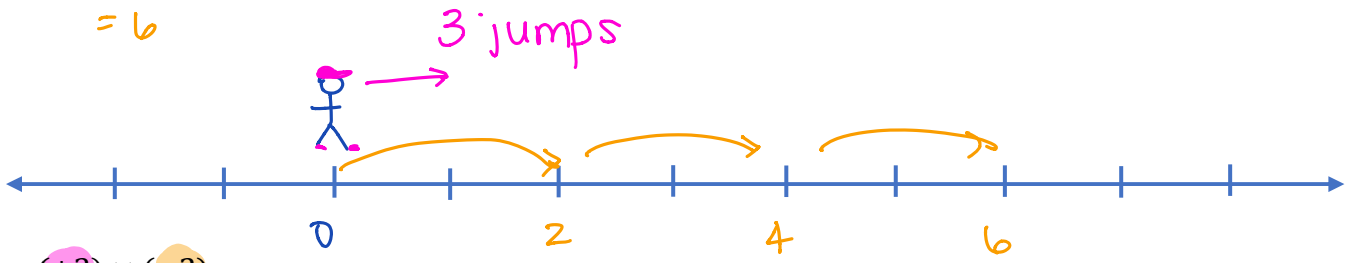
- +/- tells you what direction to face
- # tells you how many jumps

- +/- forwards or backwards
- # tells you how big your jump is.

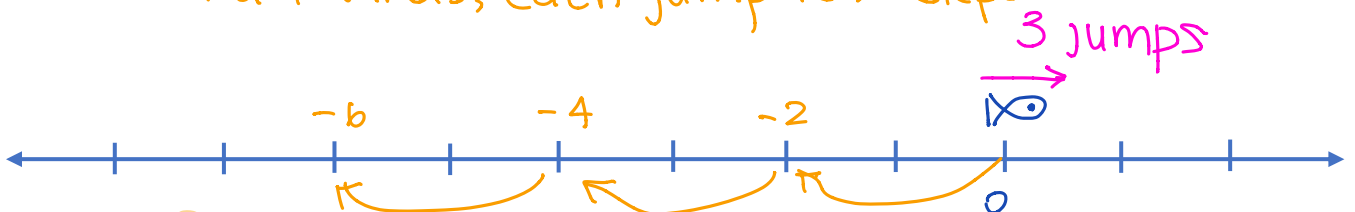
Always start at zero on the number line.

Example Find the following **product** by modelling the equation.

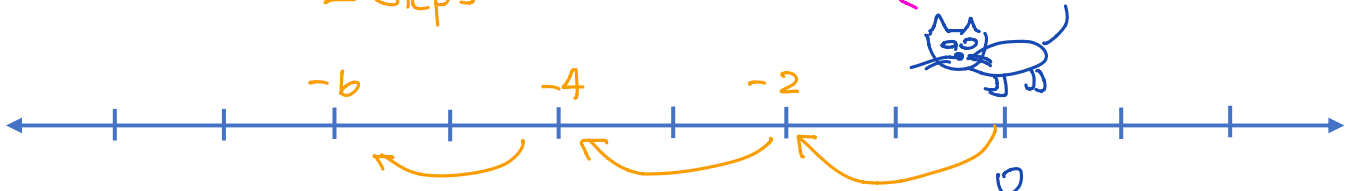
a. $(+3) \times (+2) = 6$ forward, each jump is 2 steps



b. $(+3) \times (-2) = -6$ backwards, each jump is 2 steps



c. $(-3) \times (+2) = -6$ forward, each jump is 2 steps

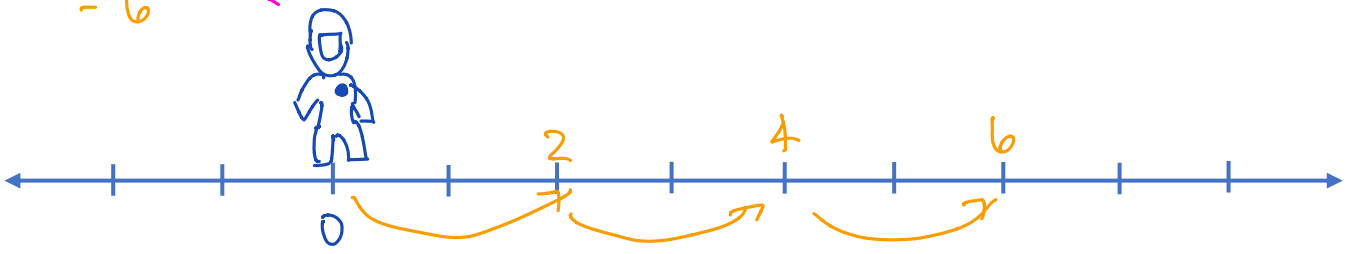


d. $(-3) \times (-2)$

$= 6$

backward, 2 steps per leap

3 leaps

**Sign Rule**

- When the integers have the same sign, you have a positive product
- When the integers have different signs, you have a negative product.

Once more, models are **time consuming** **necessary**
inconsistent **limiting**

Example Find the following **products** without modelling.

a. $(-8) \times (-2) = 16$

b. $(-4) \times 9 = -36$

c. $(-9) \times 6 = -54$

d. $4 \times (-3) \times (-2) = 24$

Example Dwayne owns 325 shares of Global Tech Media. Each share decreased by 33 cents over a period of one week. If this trend continues, what will the total change in value of Dwayne's shares be in eight weeks?

1. for one share

~~-33×8~~

8×-33

$= -264$

2. 325×-264

$= -85800 \text{ ¢}$

$= -\$858$

~~-264×325~~

Dwayne lost \$858 in 8 weeks