1.1 Integers

Adding & Subtracting Integers

Ex. 1 a) $4 + (-5) = 4 - 5$
$= -1$

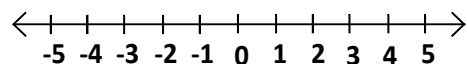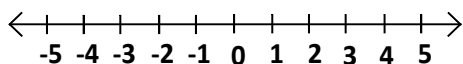b) $4 - (-5) = 4 + 5$
$= 9$

Conclusions...
- Adding a negative is the same as subtracting
- Subtracting a negative is the same as adding

If there are TWO SIGNS beside each other... then SIMPLIFY
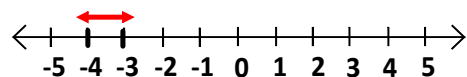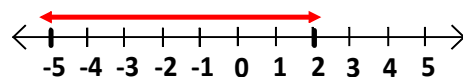
Ex. 2

a) (-2) + (-3)

-5 -4 -3 -2 -1 0 1 2 3 4 5

b) 5 + (-7)

-5 -4 -3 -2 -1 0 1 2 3 4 5

c) 2 - (-5)
This is the difference between 2 and -5

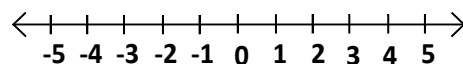-5 -4 -3 -2 -1 0 1 2 3 4 5

d) (-3) - (-4)
… difference between -3 and -4

-5 -4 -3 -2 -1 0 1 2 3 4 5

e) 4 - 7- (-1)

-5 -4 -3 -2 -1 0 1 2 3 4 5

f) -(-3) - 1

-5 -4 -3 -2 -1 0 1 2 3 4 5
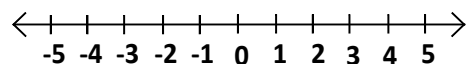
Multiplying & Dividing Integers

positive x positive	negative x negative	positive x negative	negative x positive
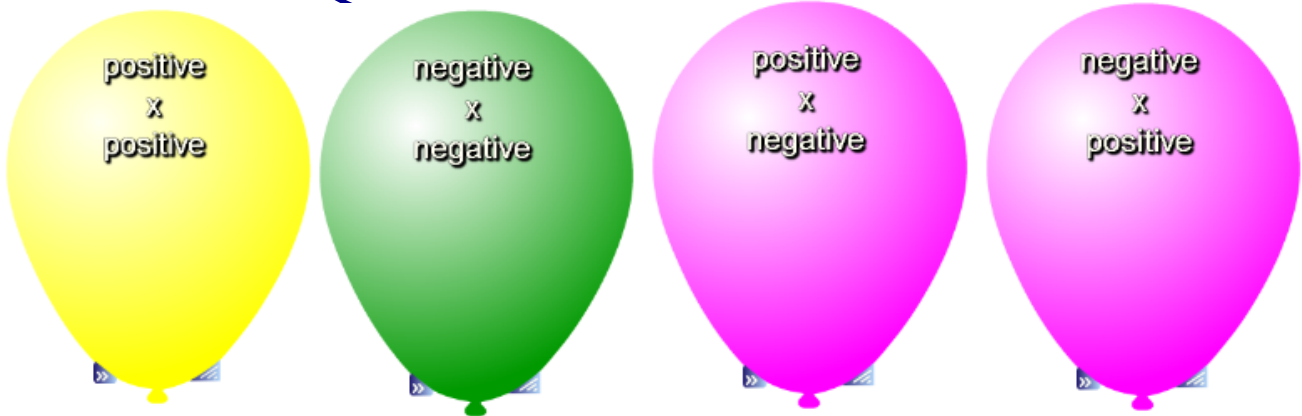
When multiplying or dividing integers
- same signs give a _____ answer
- different signs give a _____ answer
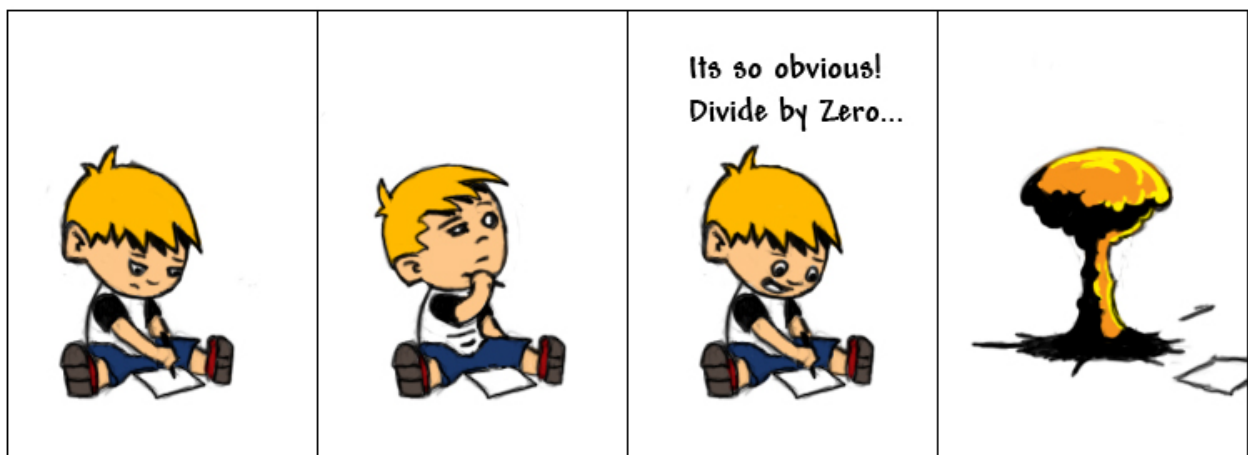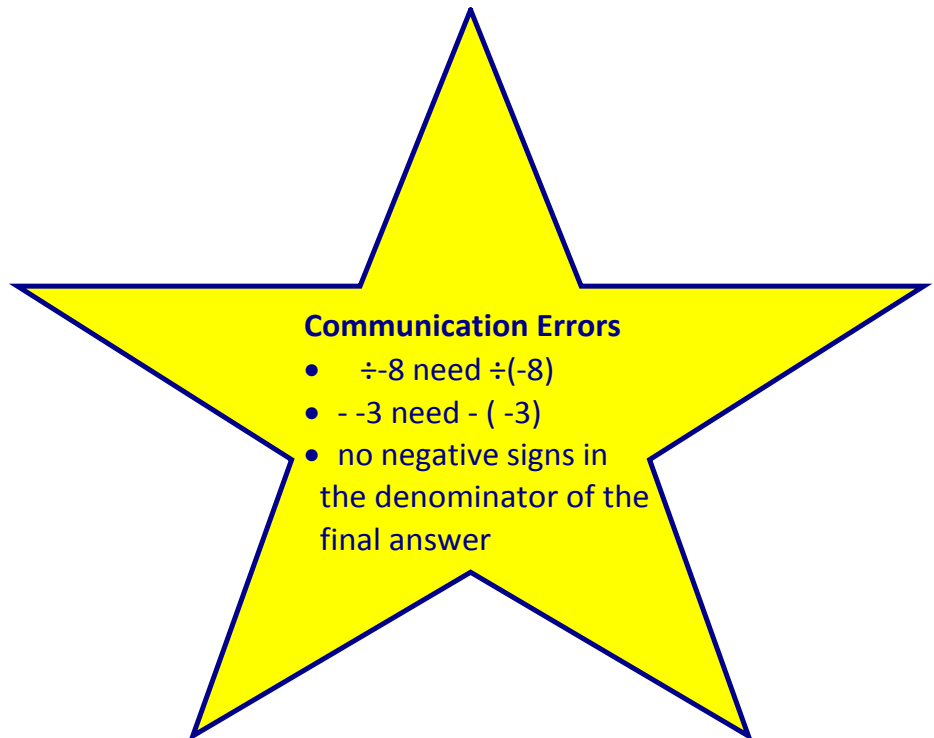
Ex. 3 Evaluate

a) (2)(-6)   b) -(-4)   c) (-24)÷(-8)

d) (-2)(-3)(-4)   e) $\dfrac{-36}{-3}$ f) 0÷8

g) 12÷0

Communication Errors
- ÷-8 need ÷(-8)
- - -3 need - (-3)
- no negative signs in the denominator of the final answer

Its so obvious!
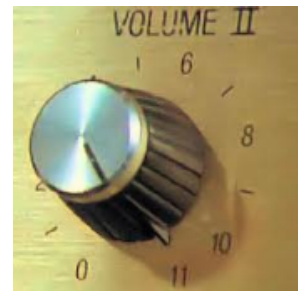Divide by Zero...

Curtis Lawrence

Ex. 4 The temperature in Ottawa starts at -3° C and rises 15° C during the day. It then falls 17° C, what is the final temperature?

ALWAYS, ALWAYS, ALWAYS
SHOW YOUR WORK!

Let's take it up a notch....

Ex. 5 $-6-(7+(-2)(4))^2$

ALWAYS, ALWAYS, ALWAYS
SHOW YOUR WORK!