# Warm Up 9/5/18

1. Evaluate: $|12 - 8| + |-15 + -2| - 7$

$|4| + |-17| - 7$

$4 + 17 - 7$

$21 - 7$

$\boxed{14}$

2. Simplify: $17.28 \div 5.4$

$$\begin{array}{r} 3.2 \\ 5.4\overline{)17.28} \\ 162 \\ \hline 108 \\ 108 \\ \hline 0 \end{array}$$

$\boxed{3.2}$

3. Order from least to greatest:

~~0.9~~, ~~$\frac{2}{5}$~~ , ~~-1.2~~, ~~0.37~~, ~~$\frac{1}{3}$~~ , ~~-0.75~~, ~~$0.\overline{6}$~~

$\frac{2}{5}$ $0.4$

$\frac{1}{3}$ $0.\overline{3}$

$0.37$ $0.333\ldots$

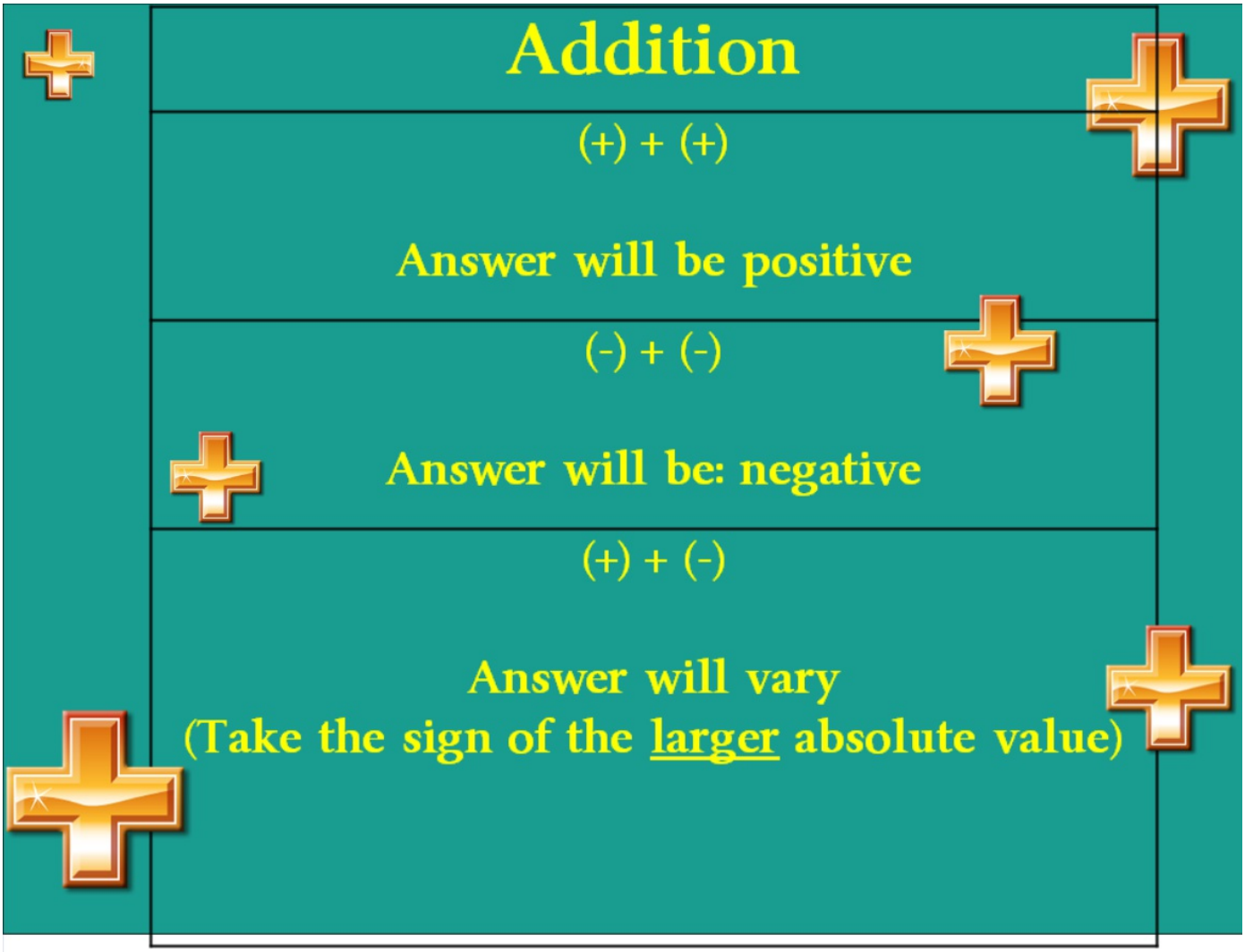
---

$-1.2, -0.75, \frac{1}{3}, 0.37, \frac{2}{5}, 0.\overline{6}$

$0.9$

# ADDING INTEGERS

++++++++++++++++++


Addition
(+) + (+)
Answer will be positive
(-) + (-)
Answer will be: negative
(+) + (-)
Answer will vary
(Take the sign of the larger absolute value)

Do the numbers have the ***SAME*** SIGN?

***YES -*** Same Signs:
Find the **SUM:**

***NO -*** Different signs:
Find the
**DIFFERENCE:**

(-3) + (**-6**) = (**-**9)

(+4) + (**+5**) = (**+**9)

(+5) + (**-7**) = (-2)

(-4) + (**+6**) = (**+**2)

**Either way: Keep the sign of the *LARGER** number.**

## Let's Try Some!!!!!!!!

3 + 4 7

7 + -9 -2

21 + -3 18

-2 + -4 -6

-18 + -9 -27

-5 + 9 4

-10 + 8 -2

-4 + -12 -16

0 + -30 -30

# SUBTRACTING INTEGERS

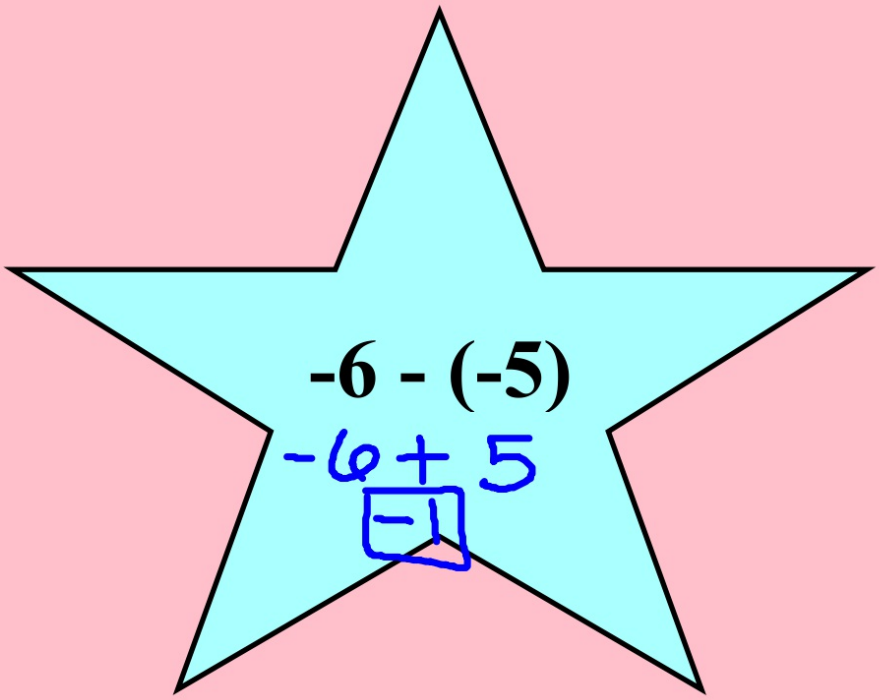
# Keep – Change – Change

**Keep** the first # the same

**Change** subtraction sign to addition sign

**Change** the sign of the second #

Let's try "Keep-Change-Change" with this example:



# -6 - (-5)

Step 1: Keep the sign of the first number

-6 stays -6

**-6 - (-5)**

Step 2: Change subtraction sign into an addition sign

**-6 + (-5)**

Step 3: Change the sign of the second number

**-6 + 5**

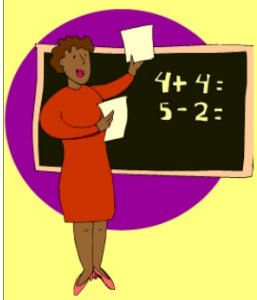
**So then we have... -6 + 5= -1**

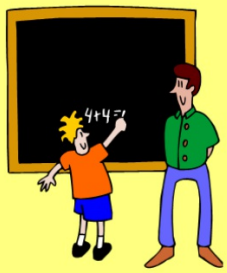
# ADD THE OPPOSITE

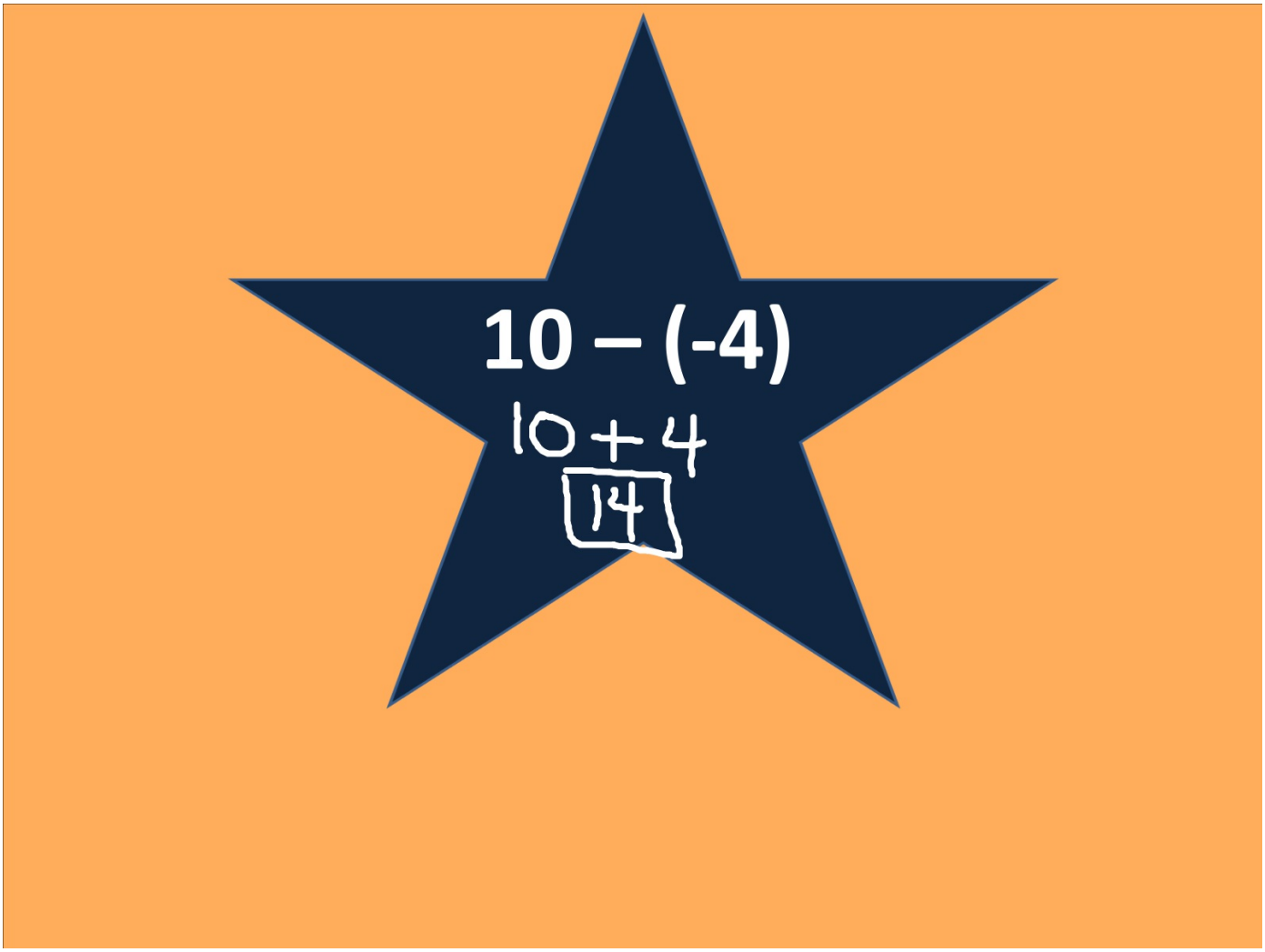
2 Steps:

*1)Change the subtraction sign ( - ) to an addition sign ( + )*

*2) Change the sign ( +/ - ) of the second integer*




10 – (-4)
10 + 4
14

# Integer Multiplication and Division

# INTEGER MULTIPLICATION & DIVISION

| SAME signs… Equals a POSITIVE | DIFFERENT signs… Equals a 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!!!!***

$$-8(-10) = 80$$

$$-8(10) = -80$$

$$8(-10) = -80$$

$$8(10) = 80$$

$$\frac{-49}{-7}$$

$$21 + (+35)$$

56

$$\frac{-105}{5} = -21$$

$$-4(50) = -200$$

$$-4 + -18$$

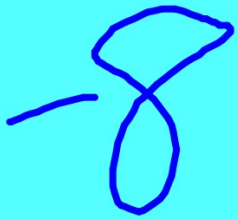
$$-22$$

$$-8(-6)$$ 48

$-100_{(8)}$

$-64_{(10)}$

$$-17 + 9$$



$$-3(-12)$$

36

$16(-4)$ $-64$

$$16 + (+4)$$

20

$$\begin{array}{r} 72 \\ -9 \\ \hline \end{array}$$

$-8$

$$\begin{array}{r} -84 \\ \hline 21 \end{array}$$

$-4$

0(-6)

$$\frac{-144}{-12}$$

12

$$(-60) - (-5)$$

$$-60 + 5 = -55$$

$$-12 - 4$$

$$-12 + -4$$

$$-16$$

$$\begin{array}{r} 35 \\ -7 \\ \hline \end{array}$$

-5

$$9(-11) \quad -99$$

$$\begin{array}{r} 150 \\ -25 \end{array}$$

$-6$

# EXIT TICKET

https://goo.gl/forms/fA39fFabrhKR9B273