

DEALING WITH INTEGERS

(addition of integers)

The Facts: In mathematics, the set of integers results from enlarging the set of whole numbers to create solutions for every whole-number subtraction problem (for example: $3 - 5$, the answer is a negative whole number (-2), an **integer!**)

The Activity: Use the number lines on the bulletin board to find the answers to the two problems that you see (in the white boxes).

Problem:

- (1) Start with the pointer (red) at zero on the number line.
- (2) Read the problem from left to right, using the cards that you see.
- (3) Move the pointer (red) as you “read” the problem.
- (3) Red cards stand for a positive number, or a move to the RIGHT.
- (4) Black cards stand for a negative number, or a move to the LEFT.

Solve:

Problem #1 (top box):

$$7 + (-8) + (-2) + 5 + 2 = \underline{\hspace{2cm}} \text{ (where do you end up?)}$$

Problem #2 (bottom box):

Use what you’ve learned, and fill in the blanks, then state your answer.
(Key ... the ACE card = 1, *but be careful with the color*).

$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

*** BONUS:** Make up your own “adding integers” problem below, and solve it!

☺ Hint: use the bulletin board (and extra cards provided) to help you ...

$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$