

Subtracting-Negatives

Learning Goal:

By the end of this lesson I should be able to SUBTRACT negative numbers from other numbers (pos. and neg.) WITHOUT the use of a calculator (technology). **Part Two**

When we are asked to find the DIFFERENCE of two numbers, we are being asked to SUBTRACT or take away one number from the other.

Difference -> Subtract -> Take Away

(Similar meaning)

Big Idea!!!!

(previous video Subtracting-1.5)

Adding a negative value gives the same result as subtracting a positive value.

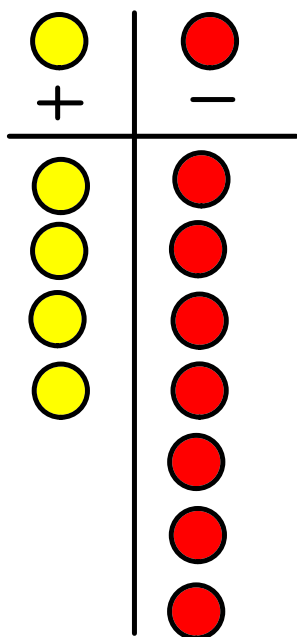
$5 + (-3)$ is the same as $5 - 3$

Using an Integer Chips model show the Difference of:

$$(-3) - 4$$

(Review)

(three negative chips, take away four positive chips)



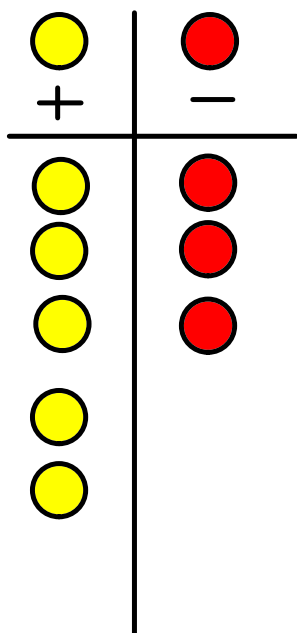
Subtracting Negative Values

Pay attention, this can be tricky.

Using an Integer Chips model show the Difference of:

$$2 - (-3)$$

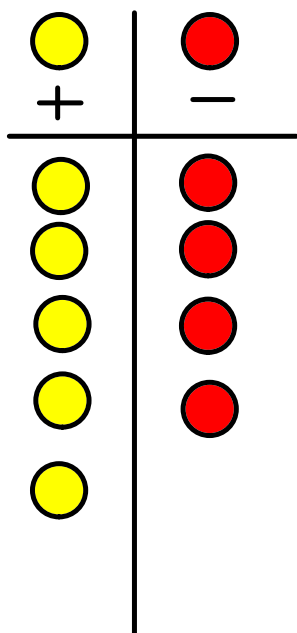
(two positive chips, take away three negative chips)



Using an Integer Chips model show the Difference of:

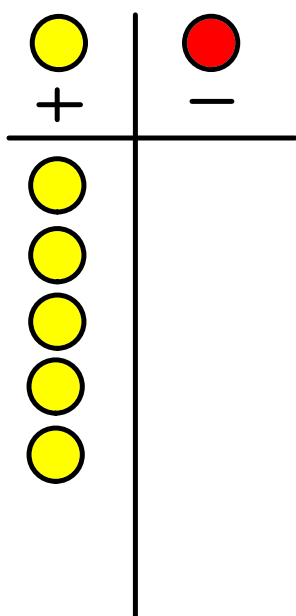
$$1 - (-4)$$

(one positive chip, take away four negative chips)



$$5 + 2$$

(add two positive chips)



Compare the following:

$$5 + 2 =$$

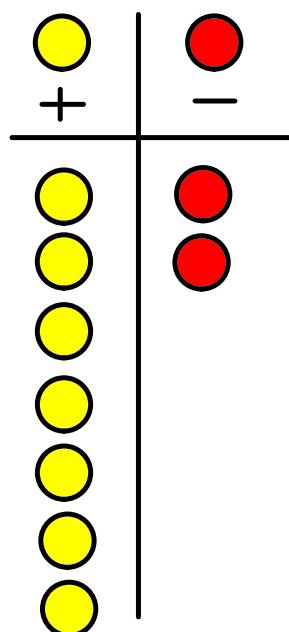
and

$$5 - (-2) =$$

Observations...

$$5 - (-2)$$

(take away/subtract two negatives chips)



Big Idea!!!!

Subtracting a negative value gives the same result as adding a positive value.

$5 - (-2)$ is the same as $5 + 2$

Subtracting Summary

Subtracting a positive number gives the same result as *adding a negative* number.

$$9 - 5 \quad \text{is the same as} \quad 9 + (-5)$$

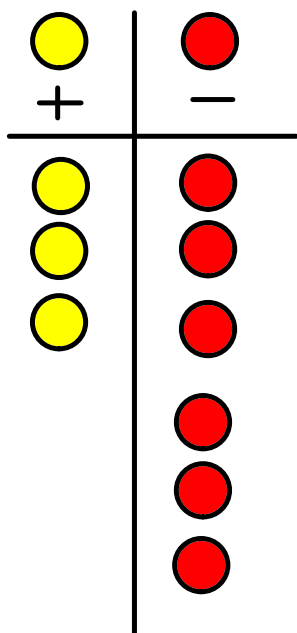
Subtracting a negative number gives the same result as *adding a positive* number.

$$5 - (-3) \quad \text{is the same as} \quad 5 + 3$$

Using an Integer Chips model show the Difference of:

$$(-3) - (-2) - (-1)$$

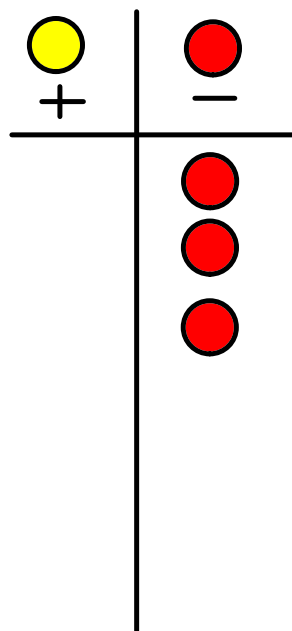
(three negative chips, take away two negative chips, take away 1 negative chip)



OR

$$(-3) + 2 + 1$$

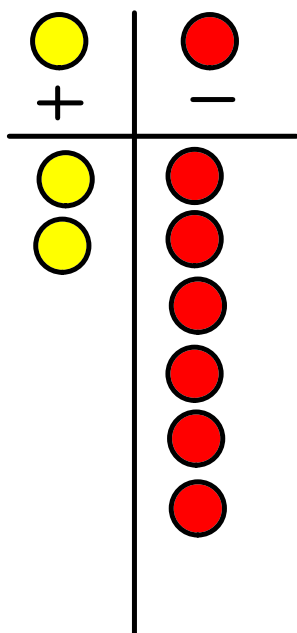
(three negative chips, add two positive chips, add 1 positive chip)



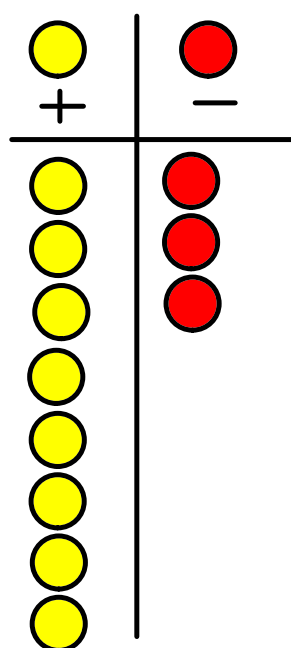
Press PAUSE on the video and try the following

Using the Integer Chips model show the difference of:

(a) $(-4) - (-3)$



(b) $5 - (-1) - (-2)$



Task 1.6

Attachments

Math - task1 - add-sub integers.doc