Adding Integers: Counters



1. Refer to the pictures and add. Remember each "positive-negative" pair is canceled.



2. Write addition sentences (equations) to match the pictures.

a.	b.	с.
d.	е.	f.

Sample worksheet from www.mathmammoth.com

A note on notation

We can write an elevated minus sign to indicate a negative number: ⁻⁴. Or we can write it with a minus sign and parentheses: (-4). We can even write it without the parentheses if the meaning is clear: -4. So -4 + -4 = -8 is the same as (-4) + (-4) = (-8), which is the same as -4 + (-4) = -8You *should* write the parentheses if you have + and -, or two - signs, next to each other.

So, do not write "8 + -4"; write "8 + (-4)." And do not write "3 - -3"; write "3 - (-3)."

3. Think of the counters. Add.

a. 7 + (-8) =	b. $(-7) + (-8) =$	c. $5 + (-7) =$	d. $50 + (-20) =$
(-7) + 8 =	7 + 8 =	7 + (-5) =	10 + (-40) =
e. $^{-}2 + ^{-}4 =$	f. $10 + ^{-}1 =$	g. $-8 + 2 =$	h. $^{-9} + ^{-1} =$
$^{-}6 + 6 =$	⁻ 10 + ⁻ 1 =	⁻ 8 + ⁻ 2 =	9 + ⁻ 1 =

4. Rewrite these sentences using symbols, and solve the resulting sums.

- a. The sum of seven positives and five negatives.
- **b.** Add –3 and –11.
- c. Positive 100 and negative 15 added together.
- 5. Write a sum for each situation, and solve.
 - **a.** Your checking account is overdrawn by \$50. (This means your account is negative). Then you earn \$60. What is the balance in your account now?
 - **b.** Hannah owes \$20 to her mom. Then, she borrows \$15 more from her mom. What is Hannah's "balance" now?
- 6. Consider the four expressions 2+6, (-2) + (-6), (-2) + 6, and 2 + (-6). Write these expressions in order from the one with least value to the one with greatest value.

7. Find the number that is missing from the equations.

a. $-3 + __= -7$	b. $-3 + __= 3$	c. $3 + __= (-7)$
d. + (-15) = -22	e. $2 + __= -5$	f. + (-5) = 0

Sample worksheet from www.mathmammoth.com