Adding Integers – HOMEWORK

1. What are some ways that the words "positive" and "negative" are used to describe opposites in everyday speech?

2. Imagine that you received a report of transactions, but <u>one digit</u> in each number was smudged (♦) and unreadable. For each of the following, determine whether the result will be positive, zero, negative, or impossible to determine.
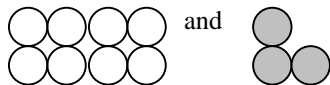
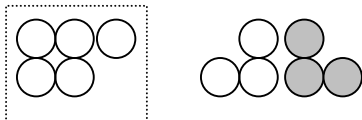   **a.** –7♦35 + 43♦0

    b. 6♦13 + (–49♦4)

    c. –5♦48 + (–23♦)

    d. 5♦3 + (–5♦3)
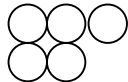
3. Write the addition of integers problem that is represented by these chips.

     and

    can be rearranged as

    This gives the result

4. Draw the chips that represent the problem, and solution, to 5 + (–9)

In problems 5 – 14, perform the indicated operation, without a calculator.

5. $10 + (-12) =$ **6.** $-28 + 12 =$

7. $-15 + (-2) =$ **8.** $25 + (-13) =$

9. $-227 + 15 =$ **10.** $-106 + (-10) =$

11. $-15 + (-5) + 7 =$ **12.** $21 + (-10) + 8 =$

13. $32 + (-18) + (-5) + 12 =$ **14.** $-18 + 42 + (-3) + 6 =$

15. Ashley had a checkbook balance of $400. She made a deposit of $50, then made a withdrawal of $78 and she made another withdrawal of $121.

   a. Write Ashley's transactions as an addition of integers.

   b. What was Ashley's checkbook balance after her transactions?

16. On the first play, the football team lost 6 yards. On the second play they gained 13 yards and on the third play they lost 4 yards.

   a. Represent the football team's gains and losses as an addition of integers.

   b. Determine the team's net yardage after 3 plays.

17. One winter morning the temperature in Grand Rapids was –15° F. An hour later the temperature rose 3°F. The temperature rose 5° in the second hour. During the third hour the temperature fell 1°F.

   a. Represent the temperature changes as an addition of integers.

   b. What was the temperature at the end of the third hour?

18. Do these three addition problems.

   $5 + (-2) =$

   $5 + (-3) =$

   $5 + (-4) =$

19. Write the next three in the pattern of problem 18.

   $5 + (-5) =$

   $5 + (-6) =$

   $5 + (-7) =$