Unit 7
Review

Write $>$ $<$ or $=$

1. -6 _____ 5   2. -15 _____ -12

3. 30 _____ -43   4. -4/5 _____ -1

5. 7^2 ___ 5^3 6. -6 + (-6) ___ -12

Some of these expressions are not number sentences. Cross them out. Then circle the number sentences that are true.

$7 \times 10^2 = 700$ 39   2/3 + 2/3 $>$ 1

6×9^3 -22-(-5)= -27   3 $<$ 5^2 +(-20)

Draw a line from each number story to the number model it matches.

a. Mary ate 6 cookies before going to a party.
At the party, Mary and 4 friends ate equal   (30 + 6)/5
shares of 30 cookies.

b. There was a full bag with 30 cookies and an
unopened bag with 6 cookies. Mary and   6 + (30/5)
her 4 friends ate equal shares of all these
cookies.

Which one?

a. John baked 8 trays of cookies. He started   8 x (12-6)
with one dozen on each tray. Then he took
1/2 from each tray to put in the freezer.   8 + (12-6)

Insert parentheses when necessary to make the number sentences true. (Because of the rules for order of operations, some of the problems might not need parentheses.)

2 = 3 x 2 - 4/1   7 = 4 x 3/2 + 1

-7 + 42 / 5 = 7   10 + 10 / 5 = $10\frac{1}{2}$

Solve. You may use your + and - counters, or your slide rule to help you.

-25 + (-16) = _____   (-8) + 9 = _____

22 - (-15) = _____   15 - 25 = _____

3 - _____ = 14   (-4) - (-7) = _____

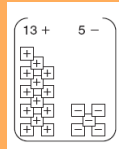Tasha is playing a game. She is 10 points "in the hole". (She has -10 points).

a. She gets 15 points on her next turn. What is her score now? _____

b. If she loses 9 points instead, what will her score be? _____

Use your ⊞ and ⊟ counters.

a. Draw a picture that shows an account with a balance of - $9.

b. Draw a picture that shows a balance of $7 using exactly 9 counters.

c. What is your balance if you have the same number of ⊞ and ⊟ counters? _____

There are 13 ⊞ and 5 ⊟ in a container.

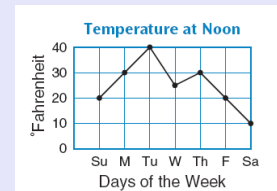a. What is the balance? _____

b. How many ⊟ counters do you need to add to get a negative balance? _____

c. What will be the new balance if you remove 8 ⊟ from the the original balance? _____

d. What will be the new balance if you:
    remove 11 ⊟ counters from the original balance? _____

    add 6 ⊟ counters to the original balance? _____

Write each number in standard notation and in number-and-word notation.

Number	Standard Notation	Number-and-Word Notation
10^4		
10^8		
6×10^3		
4.2×10^6		

Use the graph to answer the questions.

a. How much did the temperature rise from Sunday to Tuesday? _____

b. What was the temperature range for this week? _____

Temperature at Noon

°Fahrenheit

Days of the Week

Use the following data to make a line graph.

Math Study Link	1	2	3	4	5
Number of Correct Answers (out of 20)	5	20	15	10	20