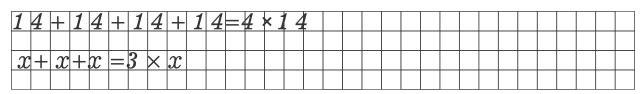
## Math 4a. Homework 1.



- 1. Mary and Julia are twins. They invited 28 friends to their birthday party. Mary wrote 3 time as many invitation cards as Julia did. How many cards did Julia write? (Draw a schematic picture of the problem if it can help you.)
- 2. Find missing digits:

3. Replace the addition with multiplication:

Example:



a. 
$$35 + 35 + 35 + 35 + 35$$
;

f. 
$$\underbrace{23 + 23 + \dots + 23}_{100 \text{ times}}$$

b. 
$$120 + 120 + 120 + 120$$

c. 
$$a + a + a + a + a + a + a + a$$
;

d. 
$$x + x + x + x + x$$
;

e. 
$$\underbrace{a + a + \cdots + a}_{100 \ times}$$

e. 
$$\underbrace{34 + 34 + \dots + 34}_{10 \text{ times}}$$

4. Compare without doing calculations (put <, >, or =):

a. 
$$2453 + 235$$
 \_\_\_\_  $2453 + 236$  b.  $234 \times 123$  \_\_\_  $234 \times 122$ 

b. 
$$234 \times 123$$
  $234 \times 122$ 

c. 
$$2341 - 123$$
 \_\_\_\_  $2341 - 122$  d.  $456 \div 4$  \_\_\_\_  $456 \div 3$ 

d. 
$$456 \div 4$$
 \_\_\_\_  $456 \div 3$ 

$$f. \ b + 235 \ \_\_ \ b + 236$$

5. Place parentheses into the following expression so that the statement is true.

a. 
$$15 - 35 + 5 \div 4 = 5$$

b. 
$$60 + 40 - 16 \div 4 = 66$$

c. 
$$24 \div 56 - 8 \times 4 = 1$$

$$d. 96 - 12 \div 6 \times 3 = 8$$

e. 
$$64 \div 64 - 8 \times 4 = 2$$

$$f. 63 \div 9 + 54 = 1$$

$$g. 75 - 15 \div 5 + 10 = 22.$$