



Name \_\_\_\_\_

Date: \_\_\_\_\_

On the day the tiger escaped, \_\_\_\_\_ people watched him from cars, and \_\_\_\_\_ people watched him from inside their homes. How many people were watching the tiger until he was caught?

(6, 18)      (33, 48)      (39, 82)      (123, 423)

- a) 24
- b) 81
- c) 121
- d) 546

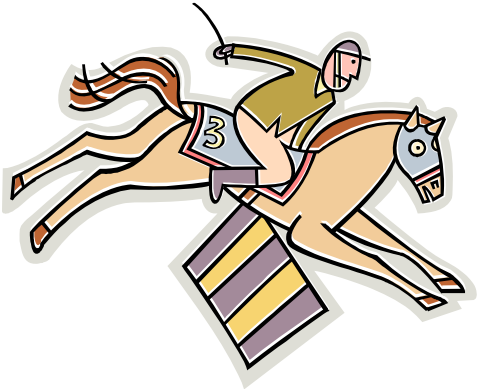
Joining all (use counting on) if direct modeling

Result unknown



Wilhelm

Use back of paper also. Show two ways to solve the problem.



Name \_\_\_\_\_

Date \_\_\_\_\_

The rider jumped over \_\_\_\_\_ hurdles in the morning.  
How many more hurdles would he have to jump over in the  
afternoon so that he jumped over \_\_\_\_\_ hurdles in  
all?

(7, 14)

(23, 47)

(34, 87)

(156, 218)

Joining to, counting onto, if direct modeling  
Change unknown, join

- a)  $7 + ? = 14$  (7)
- b)  $23 + ? = 47$  (24)
- c)  $34 + ? = 87$  (53)
- d)  $156 + ? = 218$  (62)





Name \_\_\_\_\_

Date \_\_\_\_\_

Some cowboys rode their horses out at the beginning of the rodeo. Later, \_\_\_\_\_ more cowboys came riding out to join them. Now there are \_\_\_\_\_ cowboys. How many cowboys started the show?

(3, 12)

(8, 15)

(33, 42)

(113, 218)

"Trial and Error"

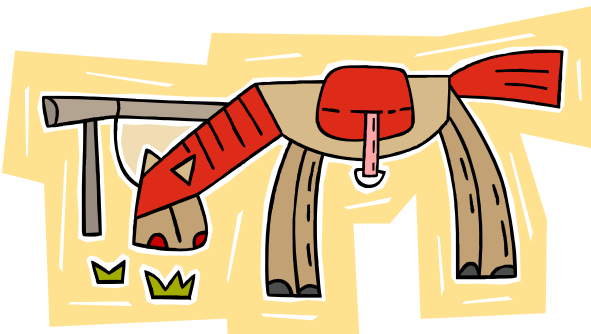
Start Unknown, Join

a)  $? + 3 = 12$  (9)

b)  $? + 8 = 15$  (7)

c)  $? + 33 = 42$  (9)

d)  $? + 113 = 218$  (105)





Name \_\_\_\_\_

Date \_\_\_\_\_

The \_\_\_\_\_ horses wanted to go into the pasture, because they saw nice green grass to eat. \_\_\_\_\_ got out of the corral and into the pasture. How many horses were left in the corral?

(19, 13)

(27, 18)

(58, 41)

(345, 57)

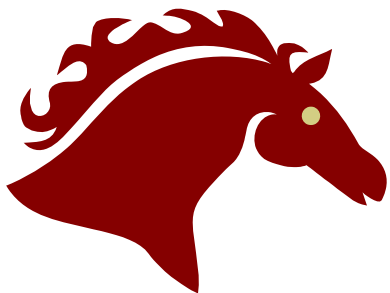
Result Unknown, Separate, N-N=?

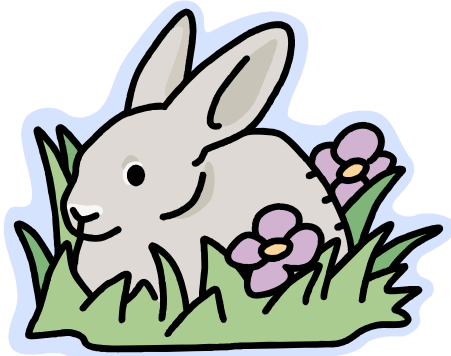
a)  $19 - 13 = 6$

b)  $27 - 18 = 9$

c)  $58 - 41 = 17$

d)  $345 - 57 = 288$





Name \_\_\_\_\_

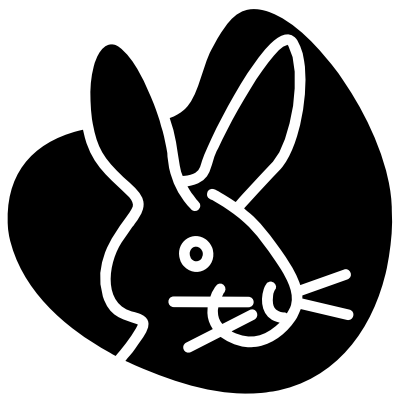
Date \_\_\_\_\_

There were \_\_\_\_\_ rabbits in the rabbit hole. Some wanted to go in the garden. Now there are only \_\_\_\_\_ left in the hole. How many rabbits went to the garden?

(14, 6)            (38, 22)            (34, 17)            (219, 112)

Change Unknown, separate  
 Separate from, counting down, if direct modeling

- a)  $14 - ? = 6$  (8)
- b)  $38 - ? = 22$  (16)
- c)  $34 - ? = 17$  (17)
- d)  $219 - ? = 112$  (107)





Name \_\_\_\_\_

Date \_\_\_\_\_

The cool cats told poems at their show. They told \_\_\_\_\_ poems with Congo drums before intermission. They have \_\_\_\_\_ more poems left to tell. How many poems will be performed in the whole show?

(7, 11)

(12, 17)

(22, 57)

(89, 178)

"Trial and Error" CGI Book, pg. 25

Start unknown, separate

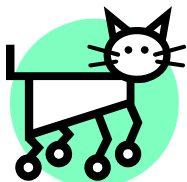
?-N=N

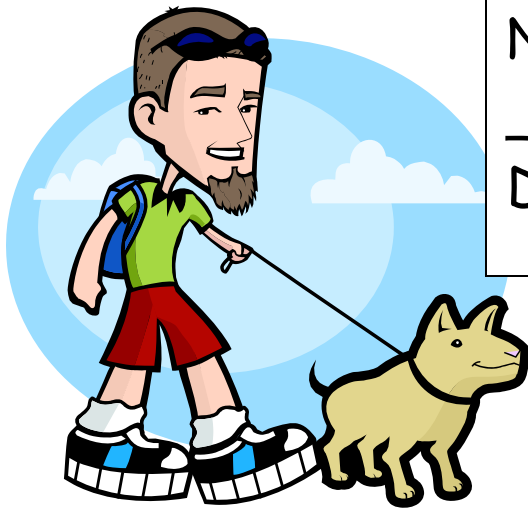
a)  $7+11=18$

b)  $12+17=29$

c)  $22+57=79$

d)  $89+178=267$





Name \_\_\_\_\_

Date \_\_\_\_\_

On the day Joe started his dog walking business, he walked \_\_\_\_\_ white dogs and \_\_\_\_\_ spotted dogs. How many dogs did he walk in all?

(5, 16)

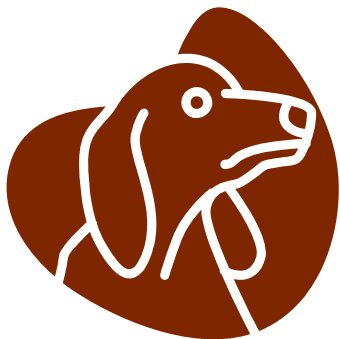
(23, 27)

(14, 39)

(35, 139)

Whole unknown, part-part whole  
 Joining all, counting on if direct modeling  
 $N+N=?$

- a)  $5+16=21$
- b)  $23+27=50$
- c)  $14+29=43$
- d)  $35+139=174$





Name \_\_\_\_\_

Date \_\_\_\_\_

One cheetah had \_\_\_\_\_ spots. It had \_\_\_\_\_ large spots, and the rest were small. How many small spots did it have?

(18, 6)

(23, 9)

(43, 27)

(555, 234)

Part-Part Whole, Part Unknown

"trial and error"

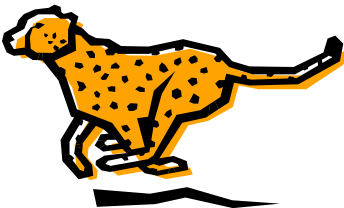
 $N - ? = N$ 

a)  $18 - 6 = 12$

b)  $23 - 9 = 14$

c)  $43 - 27 = 16$

d)  $555 - 234 = 321$







Name \_\_\_\_\_

Date \_\_\_\_\_

When the bird sang, it woke up \_\_\_\_\_ grown ups and \_\_\_\_\_ children. How many more children awoke than grown ups?

(9, 15)

(23, 35)

(29, 74)

(115, 276)

Compare, difference unknown, N-N=?

Matching if direct modeling

"Trial and error" four counting

a)  $15-9=6$

b)  $35-23=12$

c)  $74-29=45$

d)  $276-115=161$



Wilhelm

Use back of paper also. Show two ways to solve the problem.



Name \_\_\_\_\_

Date \_\_\_\_\_

The first child caught \_\_\_\_\_ butterflies. The second child caught \_\_\_\_\_ more than the first child. How many butterflies did the second child catch?

(23, 9)      (43, 27)      (56, 25)      (334, 117)

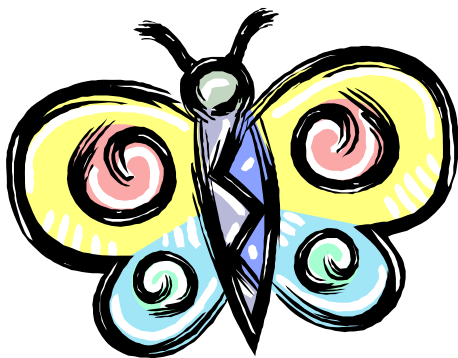
Compare, Quantity Unknown

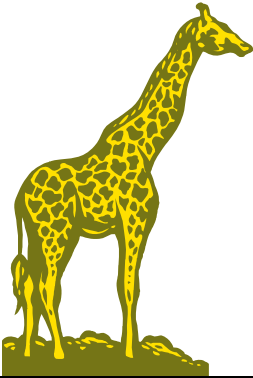
"Trial and Error"

Joining all or counting on, if direct modeling

$? + N = N$

- a)  $23 + 9 = 32$
- b)  $43 + 27 =$
- c)  $56 + 25 =$
- d)  $334 + 117 =$





Name \_\_\_\_\_

Date \_\_\_\_\_

The mother giraffe has \_\_\_\_\_ spots. That's \_\_\_\_\_ more than her baby. How many spots does the baby have?

(15, 8)

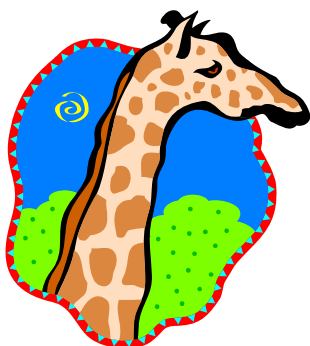
(28, 13)

(43, 18)

(123, 26)

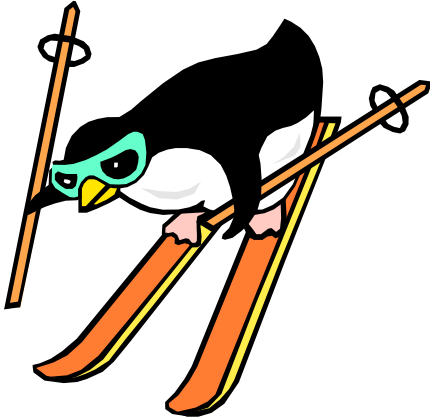
Referent Set Unknown,  
Compare  
"trial and error"

- a)  $15 - 8 = ?$  (7)
- b)  $28 - 13 = ?$  (15)
- c)  $43 - 18 = ?$  (35)
- d)  $123 - 26 = ?$  (97)



Wilhelm

Use back of paper also. Show two ways to solve the problem.



Name \_\_\_\_\_

Date \_\_\_\_\_

The skiing penguin looked up and saw \_\_\_\_\_ of flying birds in the air. Then he tripped. Each group had \_\_\_\_\_ birds in it. How many birds did the skiing penguin see?

(2, 5)

(3, 7)

(4, 6)

(8, 9)

Multiplication

Base 10

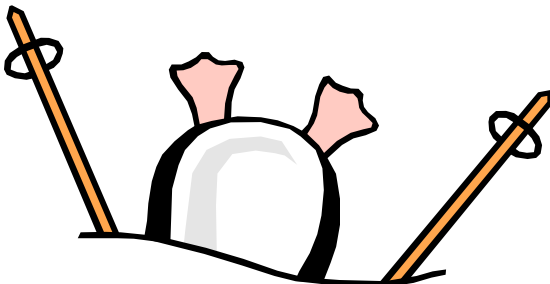
Grouping/partitioning

a)  $2 \times 5 = ?$  (10)

b)  $3 \times 7 = ?$  (21)

c)  $4 \times 6 = ?$  (24)

d)  $8 \times 9 = ?$  (72)





Name \_\_\_\_\_

Date \_\_\_\_\_

The farmer had to put \_\_\_\_\_ hens on their nests in the hen house. If \_\_\_\_\_ hens go on each row, how many rows will be filled up?

(16, 4)

(28, 7)

(42, 6)

(72, 9)

Measurement Division

$16/4=?$  (4)

$28/7=?$  (4)

$42/6=?$  (7)

$72/9=?$  (8)





Name \_\_\_\_\_

Date \_\_\_\_\_

After the turtle's birthday party, she had to put \_\_\_\_\_ balloons back into \_\_\_\_\_ boxes. How many balloons will go into each box if she puts the same number into each box?

(12, 3)

(20, 4)

(48, 8)

(121, 11)

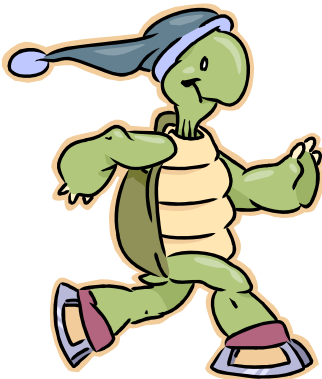
Partitive Division

$12/3=?$  (4)

$20/4=?$  (5)

$48/8=?$  (6)

$121/11=?$  (11)



Wilhelm

Use back of paper also. Show two ways to solve the problem.



Name \_\_\_\_\_

Date \_\_\_\_\_

The weight lifting bear could eat \_\_\_\_\_ kinds of \_\_\_\_\_ protein bars at a time. If \_\_\_\_\_ of those bars were by Bear-O-Bars, how many of the bars were by the Total-Bear Company?

(2, 11, 3)

(6, 3, 2)

(4, 12, 5)

(42, 6, 3)

Multistep Problem

$$2 \times 11 = 22 - 3 = 19$$

$$6 \times 3 = 18 - 2 = 16$$

$$4 \times 12 = 48 - 5 = 43$$

$$42 \times 6 = 252 - 3 = 249$$





Name \_\_\_\_\_

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Date \_\_\_\_\_

In the morning, the panda could chew on \_\_\_\_\_ leaves from \_\_\_\_\_ bamboo shoots. He could chew on \_\_\_\_\_ leaves from \_\_\_\_\_ bamboo shoots in the afternoon. How many leaves can she eat in a whole day?

(2, 3, 4, 5)

(3, 4, 3, 5)

(5, 6, 7, 8)

$2 \times 3 = 6$  and  $4 \times 5 = 20$  and  $6 + 20 = 26$

$3 \times 4 = 12$  and  $3 \times 5 = 15$  and  $12 + 15 = 27$

$5 \times 6 = 30$  and  $7 \times 8 = 56$  and  $30 + 56 = 86$

Multistep problem (two multiplication problems and then a join problem)





Wilhelm

Use back of paper also. Show two ways to solve the problem.

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