NS3-56 Division and Multiplication

Remember: $10 \div 2 = 5$ tells us that $10 \div 5 = 2$, and $5 \times 2 = 10$ tells us that $2 \times 5 = 10$. You can rewrite any **division** sentence as a **multiplication** sentence.

Example: 10 divided into sets of size 2 equals 5 sets or **$10 \div 2 = 5$**.

You can rewrite this as: 5 sets of size 2 equals 10 or **$5 \times 2 = 10$**.

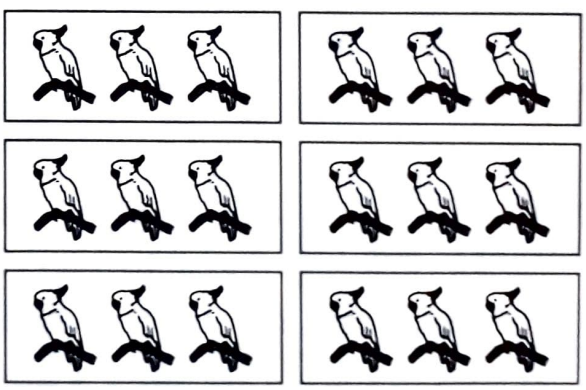
1. Write two multiplication sentences and two division sentences for the picture.

a)

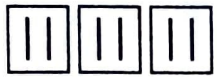
b)

c)

d)



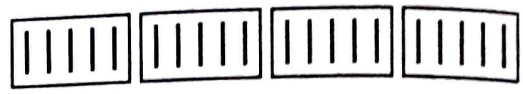
2. Fill in the blanks.

a) 

_____ lines in total

_____ lines in each set

_____ sets

b) 

_____ lines in total

_____ sets

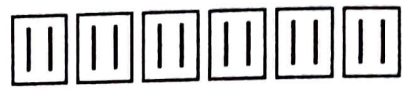
_____ lines in each set

c) 

_____ lines in each group

_____ groups

_____ lines

d) 

_____ lines in each group

_____ lines

_____ groups

3. Draw a picture to show the situation.

a) 12 lines altogether, 3 lines in each set, 4 sets

b) 8 lines, 4 lines in each set, 2 sets

c) 5 sets, 3 lines in each set, 15 lines in total

d) 12 lines, 2 sets, 6 lines in each set

e) 10 lines, 5 in each set, 2 sets

4. Draw a picture to show the situation. Then write two division sentences and two multiplication sentences.

a) 20 lines, 5 sets, 4 lines in each set

b) 15 lines, 5 lines in each set, 3 sets

5. Draw a picture to find the missing information.

a) 5 lines in each set

_____ sets

15 lines altogether

b) 18 lines

_____ lines in each set

3 sets

c) _____ lines in total

3 groups

4 lines in each group

NS3-57 Knowing When to Multiply or Divide

1. Multiply or divide to find the missing information (?).

	Total Number of Things	Number of Sets	Number in Each Set	Multiplication or Division Sentence
a)	?	8	2	$8 \times 2 = 16$
b)	27	3	?	$27 \div 3 = 9$
c)	20	?	5	
d)	10	2	?	
e)	?	4	8	
f)	21	7	?	
g)	32	8	?	
h)	45	?	9	
i)	64	8	?	
j)	81	9	?	
k)	72	?	8	
l)	16	4	?	
m)	28	?	7	
n)	42	6	?	
o)	?	8	9	

2. Write a multiplication or division sentence to solve the problem.

a) 15 things in total
5 things in each set

_____

How many sets?

_____

b) 5 sets
4 things in each set

_____

How many in total?

_____

c) 24 things in total
6 sets

_____

How many in each set?

_____

d) 4 groups
7 things in each group

_____

How many in total?

_____

e) 2 things in each set
12 things in total

_____

How many sets?

_____

f) 5 groups
45 things in total

_____

How many in each group? _____

g) 5 things in each set
4 sets

_____

How many in total?

_____

h) 8 things in each set
3 sets

_____

How many in total?

_____

i) 16 things in total
8 sets

_____

How many in each set?

_____

j) 3 things in each set
6 sets

_____

How many in total?

_____

k) 12 things in total
4 sets

_____

How many in each set?

_____

l) 20 things in total
4 sets

_____

How many in each set?

_____

3. Make up your own problem with things in sets.
Draw a picture to solve it.