

NS3-51 Two Ways of Sharing

Iva has 12 cookies. There are two ways she can share or divide her cookies equally.

Method 1:

She can decide how many sets.

Example: She wants to make 3 sets.
She draws 3 circles.



She puts one cookie in each circle.



She continues until she uses all 12 cookies.



There are 4 cookies in each set.

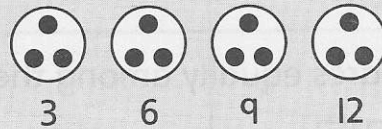
Method 2:

She can decide how many in each set.

Example: She puts 3 cookies in each set.



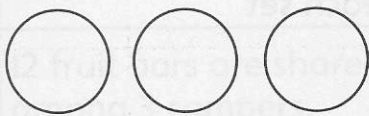
She counts out sets of 3 until she uses all 12 cookies.



She makes 4 sets.

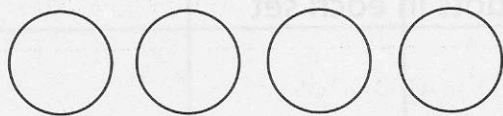
1. Share 12 dots equally. How many dots are in each set?
Place one dot at a time.

a) 3 sets



There are _____ dots in each set.

b) 4 sets



There are _____ dots in each set.

2. Share 15 dots equally. How many dots are in each set?

a) 3 sets



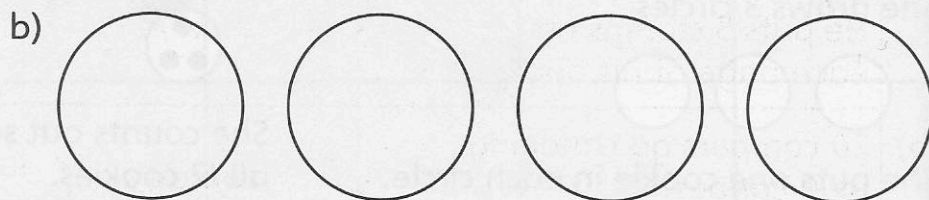
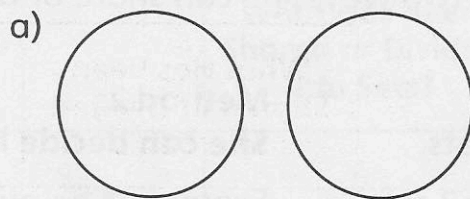
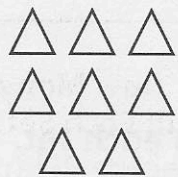
There are _____ dots in each set.

b) 5 sets

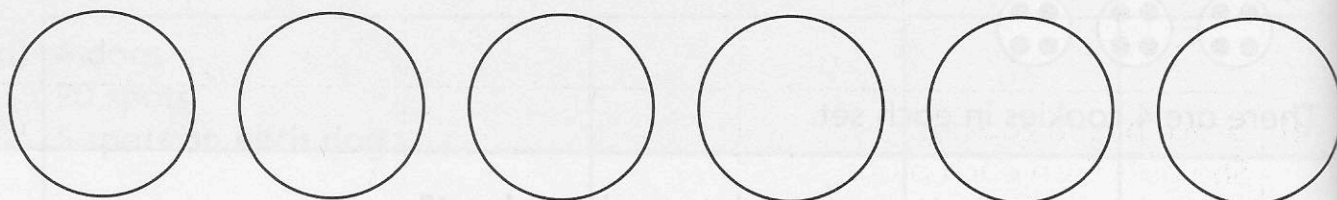
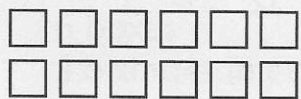


There are _____ dots in each set.

3. Share the triangles equally among the sets.
Hint: Count the triangles first.



4. Share the squares equally among the sets.



5. Draw a picture to group 12 dots equally.

a) 3 dots in each set

b) 6 dots in each set

6. Show two ways you could put 10 apples in baskets.

a) Put 5 apples in each basket.

b) Put 2 apples in each basket.



NS3-52 Two Ways of Sharing: Word Problems

I. Fill in what you know. Write a question mark for what you don't know.

	What Has Been Shared or Divided into Sets?	How Many Sets?	How Many in Each Set?
a) Jay has 15 stamps. He puts 5 stamps on each page of his book.	<i>stamps</i>	?	5
b) 20 campers go canoeing in 10 canoes.	<i>campers</i>	10	?
c) Don has 15 pens. He puts them into 3 boxes.			
d) 4 friends share 20 apples.			
e) Grace has 10 cookies. She puts 5 on each plate.			
f) 12 campers go sailing. There are 4 campers in each boat.			
g) 12 fruit bars are shared among 3 campers.			
h) 8 chairs are in 2 rows.			
i) There are 10 friends. 2 friends fit in a go-cart.			
j) There are 20 books on a bookshelf. Each shelf holds 5 books.			

2. Draw dots to show the answer.

a) 10 dots 5 sets

b) 6 dots 3 dots in each set

_____ dots in each set

_____ sets

c) 15 dots 5 dots in each set

d) 8 dots 4 sets

_____ sets

_____ dots in each set

e) 6 chairs in 2 rows

f) Ron has 8 pencils.
He puts 2 pencils in each box.

How many chairs are in
each row? _____

How many boxes does
he use? _____

g) 4 boys share 12 marbles.

h) Sandy has 9 pears.
She gives 3 pears to each friend.

How many marbles does each
boy get? _____

How many friends receive
pears? _____

i) 15 children go sailing in 3 boats.

j) Lewis has 16 stickers.
He puts 4 on a page.

How many children are in
each boat? _____

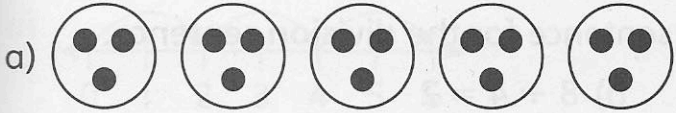
How many pages does
he use? _____

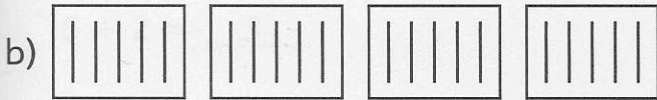
NS3-53 Division and Addition

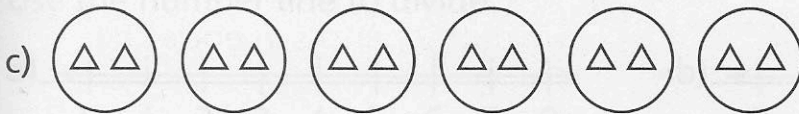


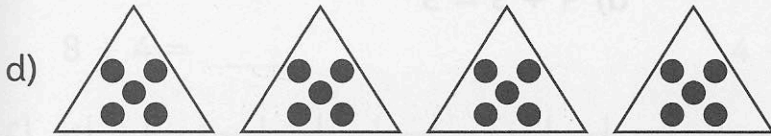
The picture shows 12 objects divided into sets of 4. There are 3 sets.
The **division sentence** is $12 \div 4 = 3$.

1. Write a division sentence for the picture.



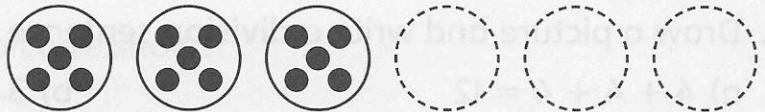






2. The answer to the division sentence shows the number of sets.
Draw a picture for the division sentence.

a) $15 \div 5 = 3$



b) $12 \div 2 = 6$



c) $20 \div 4 = 5$



d) $16 \div 8 = 2$



e) $24 \div 6 = 4$



You can rewrite any division sentence as an addition sentence.

Example: $12 \div 3 = 4$ because 12 divided into sets of size 3 equals 4 sets.

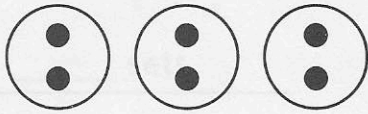


So $3 + 3 + 3 + 3 = 12$.

Adding four 3s equals 12.

3. Draw a picture and write an **addition** sentence for the **division** sentence.

a) $6 \div 2 = 3$



$2 + 2 + 2 = 6$

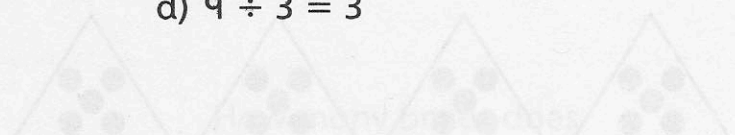
b) $8 \div 4 = 2$



c) $15 \div 5 = 3$

How many chairs are in each row?

d) $9 \div 3 = 3$



4. Draw a picture and write a **division** sentence for the **addition** sentence.

a) $4 + 4 + 4 = 12$



$12 \div 4 = 3$

b) $3 + 3 + 3 + 3 + 3 = 15$

How many friends did you visit?

c) $6 + 6 + 6 = 18$

How many chairs are in each row?

d) $2 + 2 + 2 + 2 + 2 = 10$

How many pages does each book have?
