

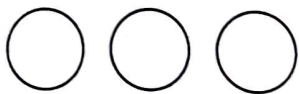
NS3-5I Two Ways of Sharing

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.



3 6 9 12

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 4 dots in each set.

b) 4 sets



There are 3 dots in each set.

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

a) 3 sets



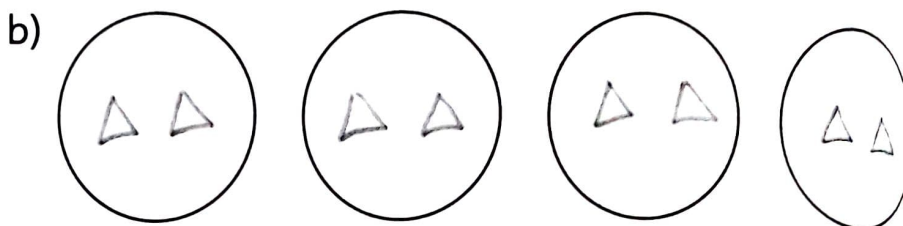
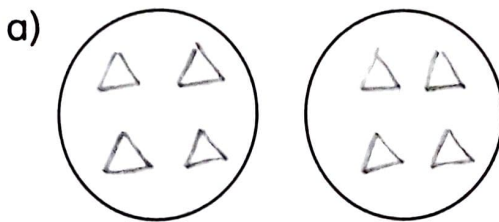
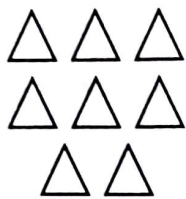
There are 5 dots in each set.

b) 5 sets

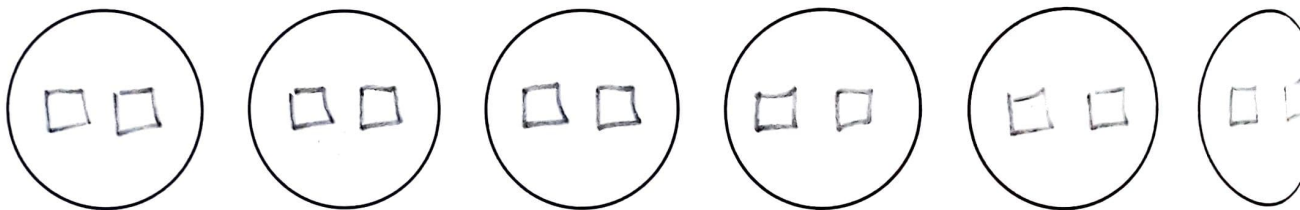
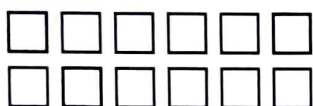


There are 3 dots in each set.

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



4. Share the squares equally among the sets.

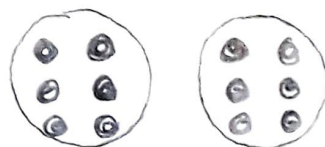


5. Draw a picture to group 12 dots equally.

a) 3 dots in each set

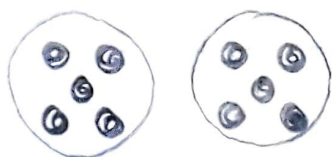


b) 6 dots in each set



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

1. 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.	<i>pens</i>	3	?
d) 4 friends share 20 apples.	<i>apples</i>	4	?
e) Grace has 10 cookies. She puts 5 on each plate.	<i>cookies</i>	?	5
f) 12 campers go sailing. There are 4 campers in each boat.	<i>campers</i>	?	4
g) 12 fruit bars are shared among 3 campers.	<i>bars</i>	3	?
h) 8 chairs are in 2 rows.	<i>chairs</i>	2	?
i) There are 10 friends. 2 friends fit in a go-cart.	<i>friends</i>	?	2
j) There are 20 books on a bookshelf. Each shelf holds 5 books.	<i>books</i>	?	5

2. Draw dots to show the answer.

a) 10 dots 5 sets



2 dots in each set

c) 15 dots 5 dots in each set



3 sets

e) 6 chairs in 2 rows



How many chairs are in each row? 3

g) 4 boys share 12 marbles.



How many marbles does each boy get? 3

i) 15 children go sailing in 3 boats.



How many children are in each boat? 5

b) 6 dots 3 dots in each set



2 sets

d) 8 dots 4 sets



2 dots in each set

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



How many boxes does he use? 4

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



How many friends receive pears? 3

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



How many pages does he use? 4

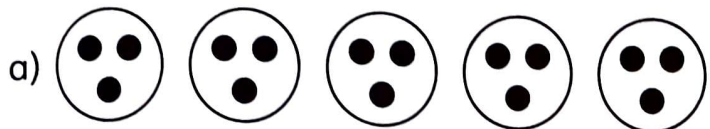
NS3-53 Division and Addition



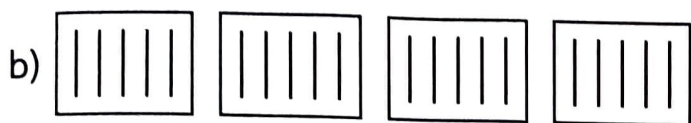
The picture shows 12 objects divided into sets of 4. There are 3 sets.

The **division sentence** is $12 \div 4 = 3$.

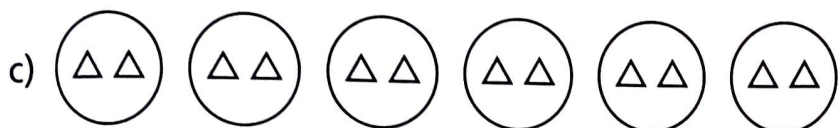
1. Write a division sentence for the picture.



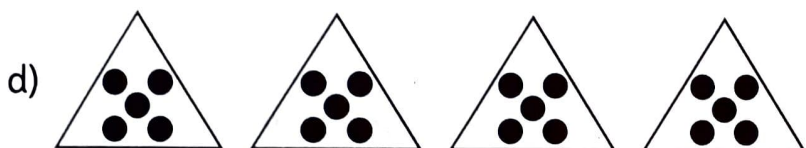
$$15 \div 3 = 5$$



$$20 \div 5 = 4$$



$$12 \div 2 = 6$$

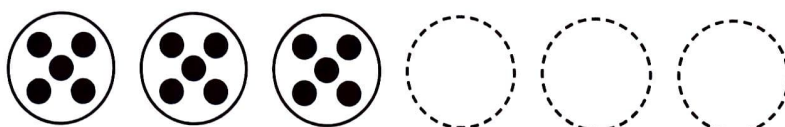


$$20 \div 5 = 4$$

2. The answer to the division sentence shows the number of sets.

Draw a picture for the division sentence.

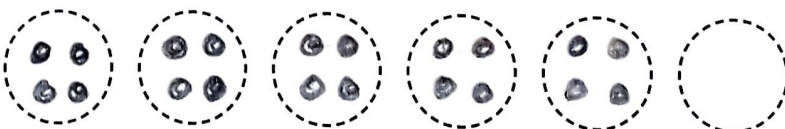
a) $15 \div 5 = 3$



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.

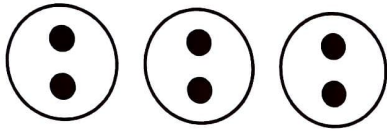


So $3 + 3 + 3 + 3 = 12$.

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) $8 \div 4 = 2$



$4 + 4 = 8$

c) $15 \div 5 = 3$



$5 + 5 + 5 = 15$

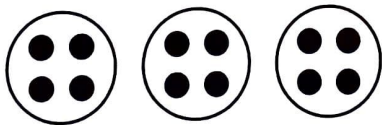
d) $9 \div 3 = 3$



$3 + 3 + 3 = 9$

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

a) $4 + 4 + 4 = 12$



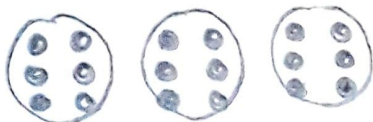
$12 \div 4 = 3$

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



$15 \div 3 = 5$

c) $6 + 6 + 6 = 18$



$18 \div 6 = 3$

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



$10 \div 2 = 5$