

## 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.<br>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.<br>He puts them into 3 boxes.                   |  |                |                       |
| d) 4 friends share 20 apples.                                       |  |                |                       |
| e) Grace has 10 cookies.<br>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.<br>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

\_\_\_\_\_ dots in each set

c) 15 dots    5 dots in each set

\_\_\_\_\_ sets

e) 6 chairs in 2 rows

How many chairs are in  
each row? \_\_\_\_\_

g) 4 boys share 12 marbles.

How many marbles does each  
boy get? \_\_\_\_\_

i) 15 children go sailing in 3 boats.

How many children are in  
each boat? \_\_\_\_\_

b) 6 dots    3 dots in each set

\_\_\_\_\_ sets

d) 8 dots    4 sets

\_\_\_\_\_ dots in each set

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

How many boxes does  
he use? \_\_\_\_\_

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

How many friends receive  
pears? \_\_\_\_\_

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

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.



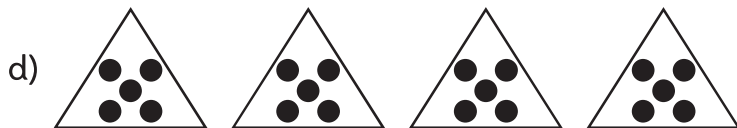
\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

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)  $16 \div 8 = 2$



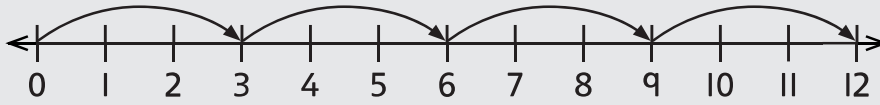
e)  $24 \div 6 = 4$





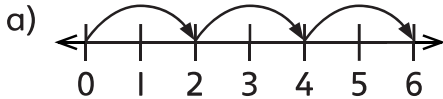
# NS3-54 Dividing by Skip Counting

You can divide by skip counting on a number line. Example: Find  $12 \div 3$ .

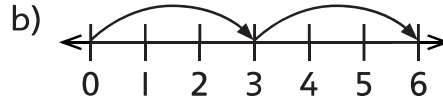


It takes 4 skips of size 3 to get to 12.  $3 + 3 + 3 + 3 = 12$  so  $12 \div 3 = 4$

1. Use the number line to complete the division sentence.

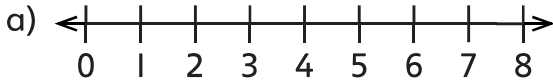


$6 \div 2 = \underline{3}$

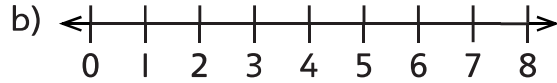


$6 \div 3 = \underline{\quad}$

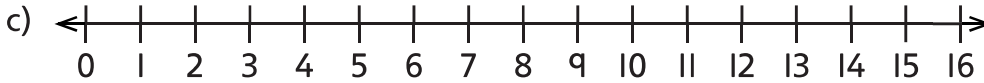
2. Use the number line to divide.



$8 \div 4 = \underline{\quad}$

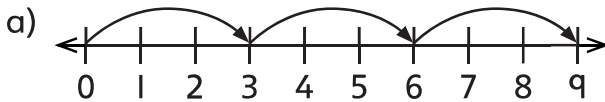


$4 \div 4 = \underline{\quad}$

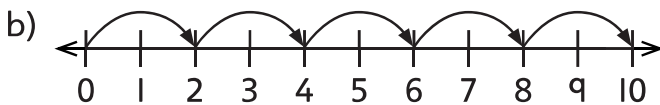


$16 \div 4 = \underline{\quad}$

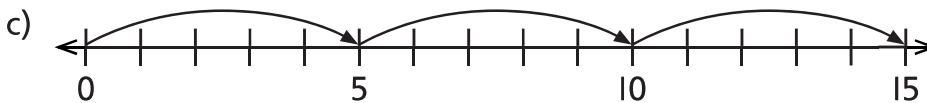
3. What division sentence does the picture show?



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

You can also divide by skip counting on your fingers.

Example: To find  $6 \div 2$ , count by 2s until you reach 6.

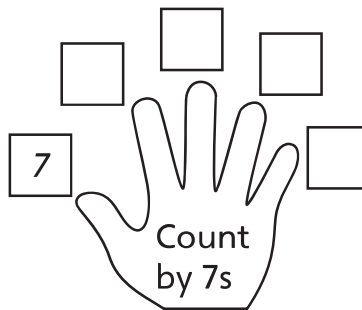
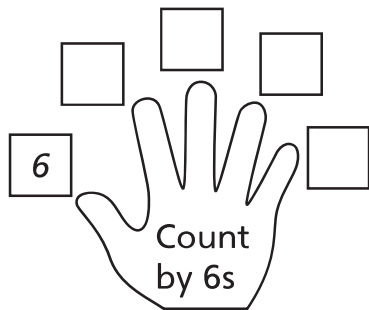


The number of fingers you have up when you stop is the answer.  
So  $6 \div 2 = 3$ .

4. Find the answer by skip counting on your fingers.

- a)  $10 \div 2 = \underline{\quad}$     b)  $8 \div 2 = \underline{\quad}$     c)  $4 \div 2 = \underline{\quad}$     d)  $9 \div 3 = \underline{\quad}$   
 e)  $10 \div 5 = \underline{\quad}$     f)  $15 \div 5 = \underline{\quad}$     g)  $25 \div 5 = \underline{\quad}$     h)  $20 \div 5 = \underline{\quad}$   
 i)  $12 \div 3 = \underline{\quad}$     j)  $6 \div 3 = \underline{\quad}$     k)  $12 \div 2 = \underline{\quad}$     l)  $5 \div 5 = \underline{\quad}$   
 m)  $2 \div 2 = \underline{\quad}$     n)  $30 \div 5 = \underline{\quad}$     o)  $15 \div 3 = \underline{\quad}$     p)  $20 \div 4 = \underline{\quad}$   
 q)  $16 \div 2 = \underline{\quad}$     r)  $3 \div 3 = \underline{\quad}$     s)  $20 \div 2 = \underline{\quad}$     t)  $12 \div 4 = \underline{\quad}$

5. Fill in the missing numbers on the hands. Then divide by skip counting.



- a)  $18 \div 6 = \underline{\quad}$     b)  $24 \div 6 = \underline{\quad}$     c)  $12 \div 6 = \underline{\quad}$   
 d)  $21 \div 7 = \underline{\quad}$     e)  $35 \div 7 = \underline{\quad}$     f)  $28 \div 7 = \underline{\quad}$   
 g)  $30 \div 6 = \underline{\quad}$     h)  $6 \div 6 = \underline{\quad}$     i)  $7 \div 7 = \underline{\quad}$

**6.** Find the answer by skip counting.

- a) Three friends share 12 stickers.  
How many stickers does each get?
- b) Twenty-four students sit at 6 tables.  
How many students are at each table?

# NS3-55 The Two Meanings of Division

David buys 12 fish from a pet store. He has 4 fish bowls.

How many fish can David put in each bowl? David counts by 4s to find out:



“I could put one fish in each bowl.”  
(4 are placed)



“I could put one more in each bowl.”  
(8 are placed)



“I could put one more in each bowl.”  
(12 are placed)



He raised 3 fingers, so he knows that  $12 \div 4 = 3$ . He puts 3 fish in each bowl.

1. Count the lines. Then divide the lines into 2 equal groups.

Hint: Skip count by 2s to decide how many to put in each group.



\_\_\_\_\_ lines altogether

\_\_\_\_\_ lines altogether

\_\_\_\_\_ in each group

\_\_\_\_\_ in each group



\_\_\_\_\_ lines altogether

\_\_\_\_\_ lines altogether

\_\_\_\_\_ in each group

\_\_\_\_\_ in each group

2. Count the objects. Then divide the objects into equal groups.

Hint: Skip count by the number of groups to decide how many to put in each group.

a) 3 equal groups



b) 5 equal groups



c) 2 equal groups



d) 4 equal groups



Here are two ways to describe the picture below.



When 15 things are divided into 5 sets, there are 3 things in each set:  $15 \div 5 = 3$ .

When 15 things are divided into sets of size 3, there are 5 sets:  $15 \div 3 = 5$ .

3. Fill in the blanks. Then write two division sentences.



\_\_\_\_\_ lines    \_\_\_\_\_ sets

\_\_\_\_\_ lines in each set

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_ lines    \_\_\_\_\_ sets

\_\_\_\_\_ lines in each set

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_



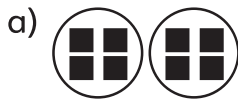
\_\_\_\_\_ lines    \_\_\_\_\_ sets

\_\_\_\_\_ lines in each set

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_

4. Fill in the blanks. Then write two division sentences.

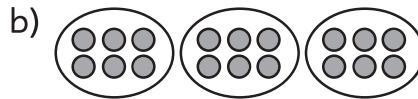


\_\_\_\_\_ squares    \_\_\_\_\_ sets

\_\_\_\_\_ squares in each set

\_\_\_\_\_

\_\_\_\_\_



\_\_\_\_\_ dots    \_\_\_\_\_ sets

\_\_\_\_\_ dots in each set

\_\_\_\_\_

\_\_\_\_\_



\_\_\_\_\_ stars    \_\_\_\_\_ sets

\_\_\_\_\_ stars in each set

\_\_\_\_\_

\_\_\_\_\_

**5.** Solve the problem by drawing a picture. Then write a division sentence for your answer.

a) 9 triangles, 3 sets  
How many triangles in each set?

b) 12 squares, 4 squares in each set  
How many sets?

c) 30 people, 5 vans  
How many people in each van?

d) 20 campers, 4 in each tent  
How many tents?