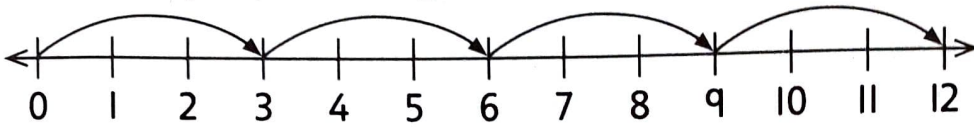


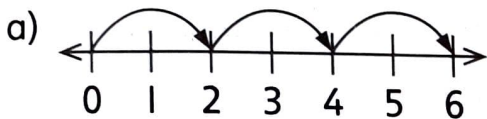
# NS3-54 Dividing by Skip Counting

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

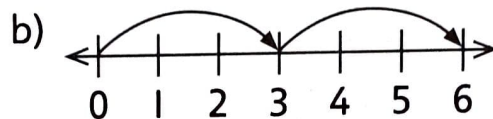


It takes 4 skips of size 3 to get to 12.  $3 + 3 + 3 + 3 = 12$  so  $12 \div 3 = 4$

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

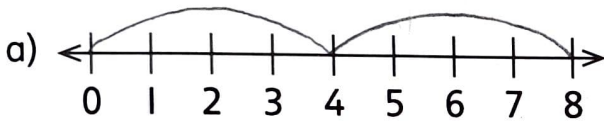


$$6 \div 2 = \underline{3}$$

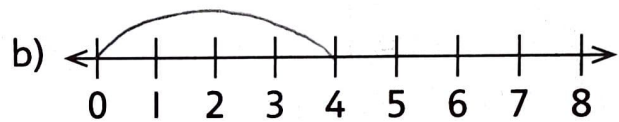


$$6 \div 3 = \underline{2}$$

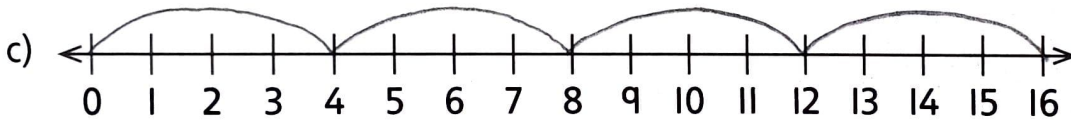
2. Use the number line to divide.



$$8 \div 4 = \underline{2}$$

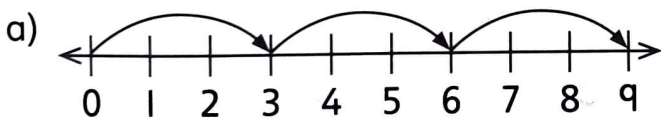


$$4 \div 4 = \underline{1}$$

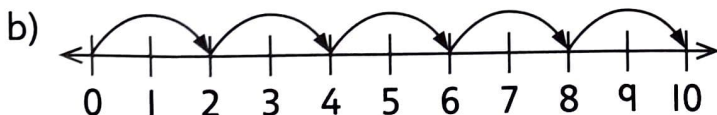


$$16 \div 4 = \underline{4}$$

3. What division sentence does the picture show?



$$\underline{9 \div 3 = 3}$$



$$\underline{10 \div 2 = 5}$$



$$\underline{15 \div 5 = 3}$$

You can also divide by skip counting on your fingers.

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

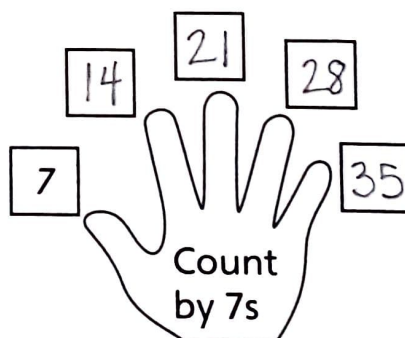
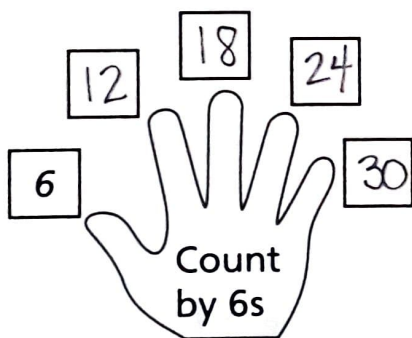


The number of fingers you have up when you stop is the answer.  
So  $6 \div 2 = 3$ .

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

- a)  $10 \div 2 = \underline{5}$     b)  $8 \div 2 = \underline{4}$     c)  $4 \div 2 = \underline{2}$     d)  $9 \div 3 = \underline{3}$   
 e)  $10 \div 5 = \underline{2}$     f)  $15 \div 5 = \underline{3}$     g)  $25 \div 5 = \underline{5}$     h)  $20 \div 5 = \underline{4}$   
 i)  $12 \div 3 = \underline{4}$     j)  $6 \div 3 = \underline{2}$     k)  $12 \div 2 = \underline{6}$     l)  $5 \div 5 = \underline{1}$   
 m)  $2 \div 2 = \underline{1}$     n)  $30 \div 5 = \underline{6}$     o)  $15 \div 3 = \underline{5}$     p)  $20 \div 4 = \underline{5}$   
 q)  $16 \div 2 = \underline{8}$     r)  $3 \div 3 = \underline{1}$     s)  $20 \div 2 = \underline{10}$     t)  $12 \div 4 = \underline{3}$

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



- a)  $18 \div 6 = \underline{3}$     b)  $24 \div 6 = \underline{4}$     c)  $12 \div 6 = \underline{2}$   
 d)  $21 \div 7 = \underline{3}$     e)  $35 \div 7 = \underline{5}$     f)  $28 \div 7 = \underline{4}$   
 g)  $30 \div 6 = \underline{5}$     h)  $6 \div 6 = \underline{1}$     i)  $7 \div 7 = \underline{1}$

6. Find the answer by skip counting. 4 stickers

4 students

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?

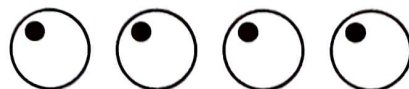
# NS3-55 The Two Meanings of Division

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.



6 lines altogether

2 in each group



10 lines altogether

5 in each group



12 lines altogether

6 in each group



8 lines altogether

4 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.



10 lines 2 sets

5 lines in each set

$10 \div 2 = 5$

$10 \div 5 = 2$



9 lines 3 sets

3 lines in each set

$9 \div 3 = 3$

$9 \div 3 = 3$



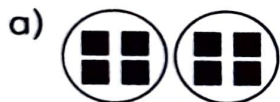
10 lines 5 sets

2 lines in each set

$10 \div 5 = 2$

$10 \div 2 = 5$

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

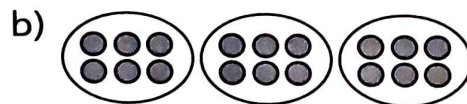


8 squares 2 sets

4 squares in each set

$8 \div 2 = 4$

$8 \div 4 = 2$



18 dots 3 sets

6 dots in each set

$18 \div 3 = 6$

$18 \div 6 = 3$



12 stars 4 sets

3 stars in each set

$12 \div 4 = 3$

$12 \div 3 = 4$

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

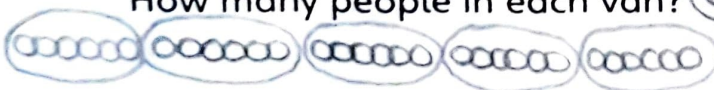
a) 9 triangles, 3 sets

How many triangles in each set? 3



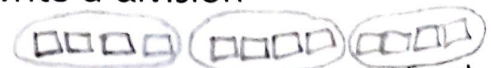
c) 30 people, 5 vans

How many people in each van? 6



b) 12 squares, 4 squares in each set

How many sets? 3



d) 20 campers, 4 in each tent

How many tents? 5

