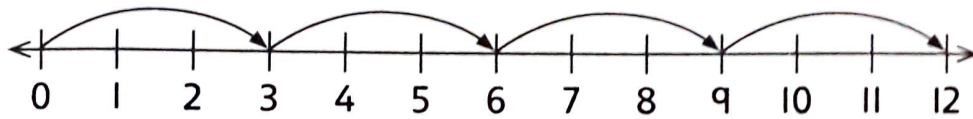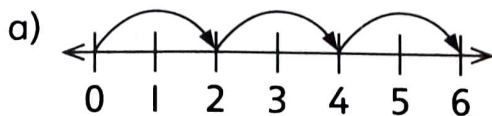# NS3-54 Dividing by Skip Counting

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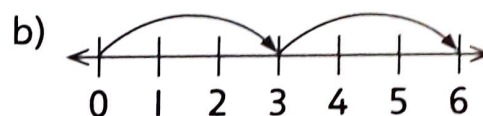

It takes 4 skips of size 3 to get to 12. $3 + 3 + 3 + 3 = 12$ so $12 \div 3 = 4$

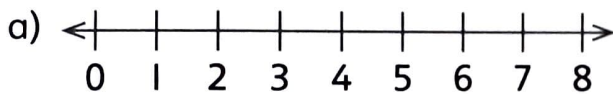1. Use the number line to complete the division sentence.

a)

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

b)
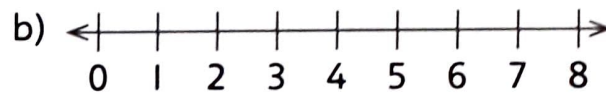

$6 \div 3 = \underline{\quad}$
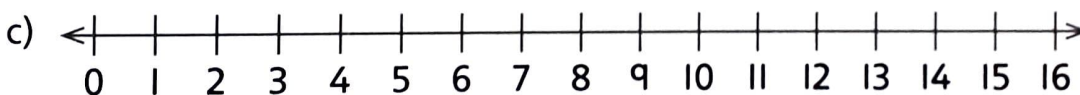
2. Use the number line to divide.

a)

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

b)
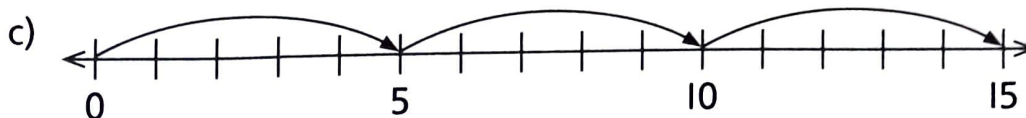

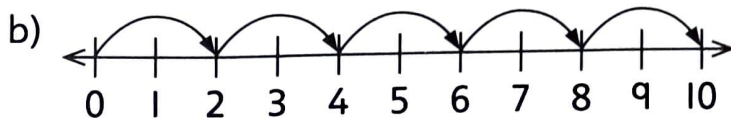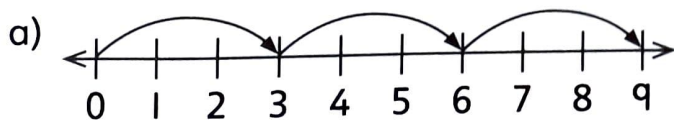$4 \div 4 = \underline{\quad}$

c)

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

3. What division sentence does the picture show?

a)

_____

b)

_____

c)

_____

You can also divide by skip counting on your fingers.
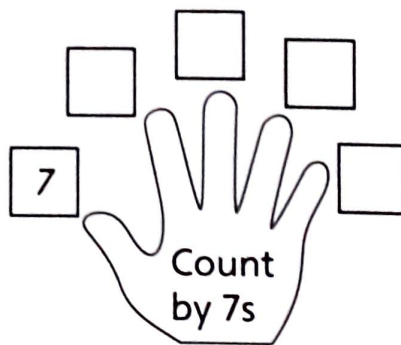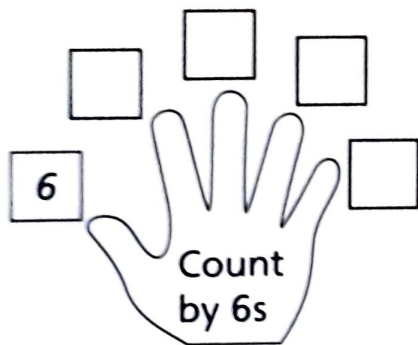
Example: To find **6 ÷ 2**, count by 2s until you reach 6.

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

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

a) 10 ÷ 2 = _____   b) 8 ÷ 2 = _____   c) 4 ÷ 2 = _____   d) 9 ÷ 3 = _____

e) 10 ÷ 5 = _____   f) 15 ÷ 5 = _____   g) 25 ÷ 5 = _____   h) 20 ÷ 5 = _____

i) 12 ÷ 3 = _____   j) 6 ÷ 3 = _____   k) 12 ÷ 2 = _____   l) 5 ÷ 5 = _____

m) 2 ÷ 2 = _____   n) 30 ÷ 5 = _____   o) 15 ÷ 3 = _____   p) 20 ÷ 4 = _____

q) 16 ÷ 2 = _____   r) 3 ÷ 3 = _____   s) 20 ÷ 2 = _____   t) 12 ÷ 4 = _____

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

a) 18 ÷ 6 = _____   b) 24 ÷ 6 = _____   c) 12 ÷ 6 = _____

d) 21 ÷ 7 = _____   e) 35 ÷ 7 = _____   f) 28 ÷ 7 = _____

g) 30 ÷ 6 = _____   h) 6 ÷ 6 = _____   i) 7 ÷ 7 = _____

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?
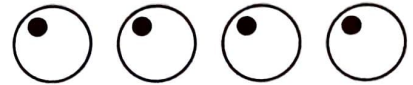
NS3-55 The Two Meanings of Division

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:

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

8
4 "I could put one more in each bowl."
(8 are placed)

8 12
4 "I could put one more in each bowl."
(12 are placed)

He raised 3 fingers, so he knows that **12 ÷ 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.

   a) (| |)(| |)

   _____ lines altogether

   _____ in each group

   b) | | | | | | | | | |

   _____ lines altogether

   _____ in each group

   c) | | | | | | | | | | | |

   _____ lines altogether

   _____ in each group

   d) | | | | | | | |

   _____ lines altogether

   _____ 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.

a)

_____ lines _____ sets

_____ lines in each set

_____ $\div$ _____ = _____

_____ $\div$ _____ = _____

b)

_____ lines _____ sets

_____ lines in each set

_____ $\div$ _____ = _____
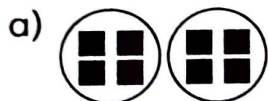
_____ $\div$ _____ = _____

c)

_____ lines _____ sets

_____ lines in each set
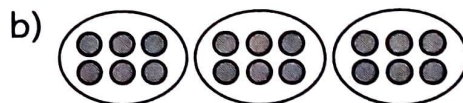
_____ $\div$ _____ = _____

_____ $\div$ _____ = _____

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

a)

_____ squares _____ sets

_____ squares in each set

_____

_____

b)

_____ dots _____ sets

_____ dots in each set

_____

_____

c)

_____ 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?