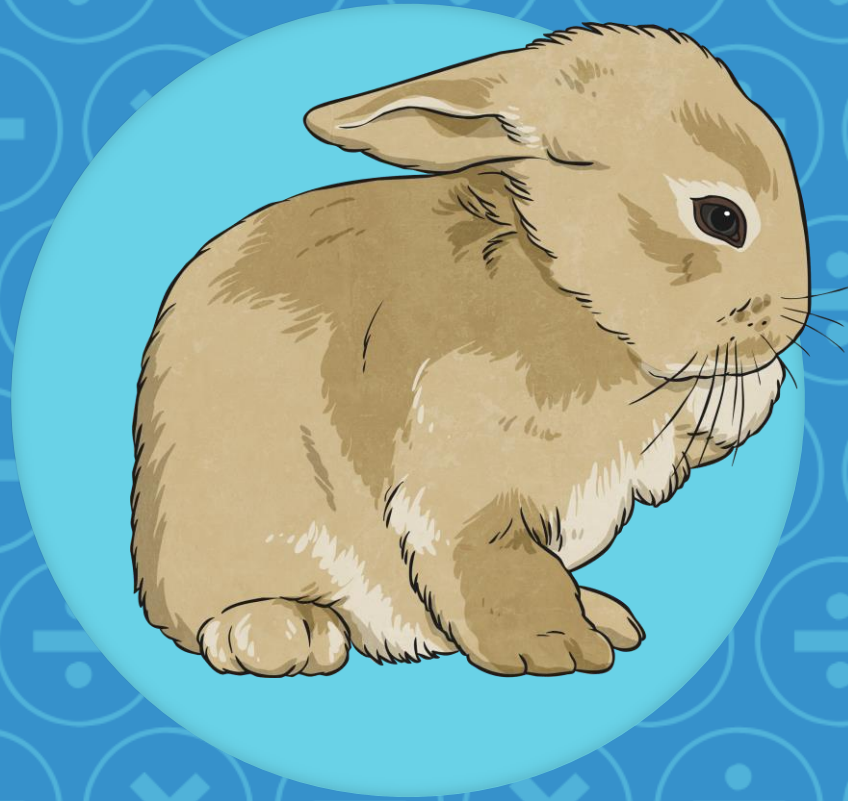
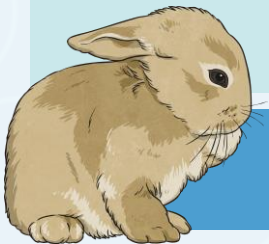


# Division on a Number Line



# Number Hops

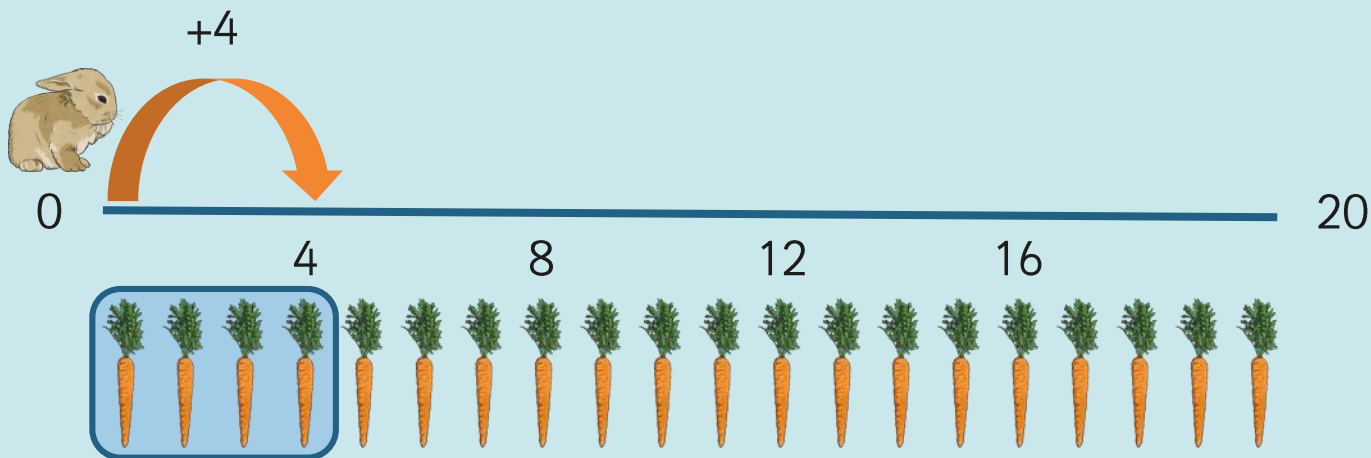
How many groups of 4 carrots are there in 20?



$$20 \div 4 = ?$$

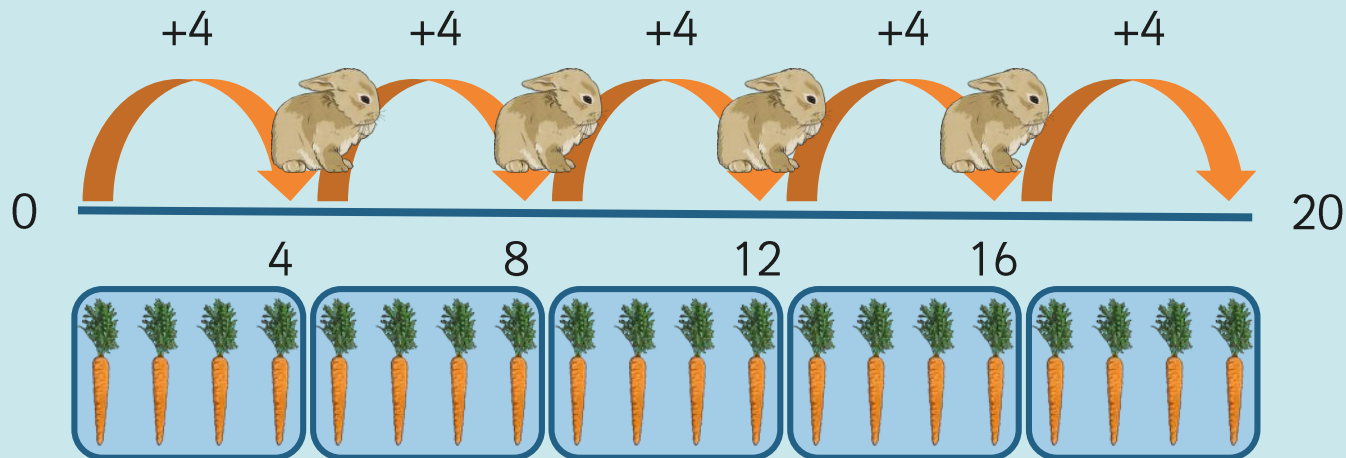
Draw a number line with **0** at the start and the target number **20** at the end.

Now the rabbit is going to see how many hops of 4 it will take to get to 20.



# Number Hops

The rabbit keeps hopping in 4s until he gets to 20.  
How many hops does it take him?



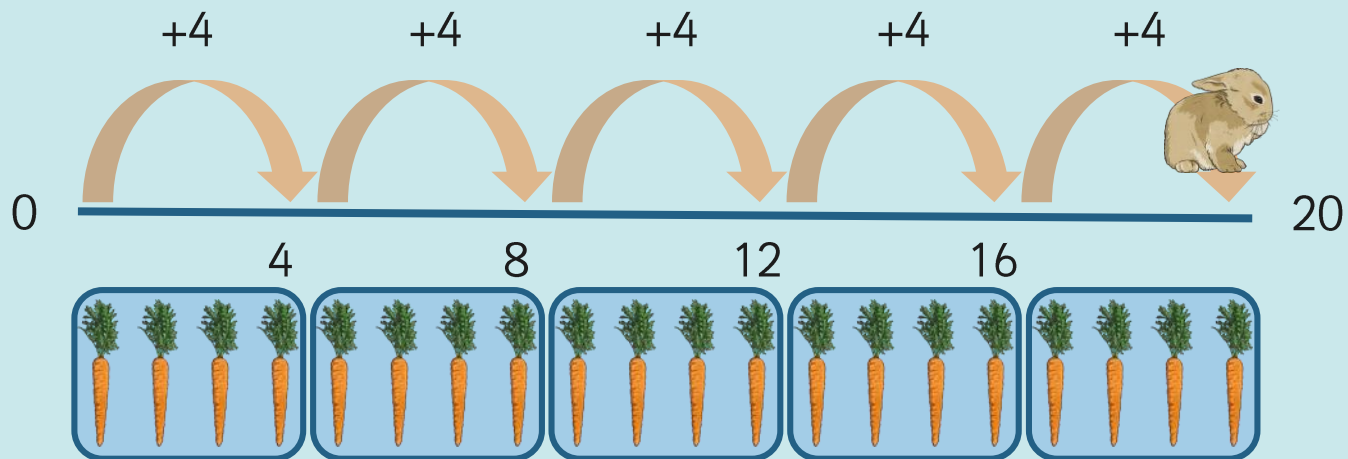
$$4 + 4 + 4 + 4 + 4 = 20$$

# Number Hops

$$5 \times 4 = 20$$

So

$$20 \div 4 = 5$$



There are 5 groups of 4 carrots in 20.

# Your Turn to Hop



Choose a calculation and use a number line to find the answer.

★	★ ★	★ ★ ★
$24 \div 3 =$	$32 \div 4 =$	$56 \div 8 =$

1. Draw a number line with zero at the start and the target number at the end.
2. Hop along the number line in groups, labelling the hops correctly.
3. Add up the number of groups that fit into the target number by counting the number of hops.

# Bunny Hops Activity



## Bunny Hops

Now try these

6.  $45 \div 3 =$

7.  $112 \div 8 =$

8.  $64 \div 4 =$

9.  $85 \div 5 =$

10.  $120 \div 8 =$

Answer:

Answer:

Answer:

Answer:

Answer:


### Grab Some Carrots

Grab a handful of carrots (counters or cubes). Count your carrots. Can you divide them into 3, 4 and 8? Are there any carrots left over? We call this a remainder.

For example:

$11 \div 4 = 2 \text{ remainder } 3$

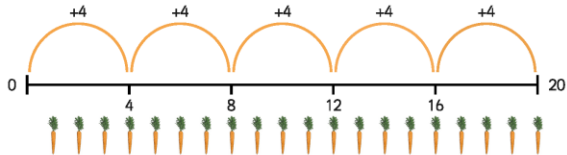
11 carrots shared into groups of 4 makes 2 groups with 3 carrots left over.



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## Bunny Hops

I can use a number line to solve division problems.



Draw number lines to find the answers to these division problems

1.  $42 \div 3 =$

2.  $52 \div 4 =$

3.  $75 \div 5 =$

4.  $39 \div 3 =$

5.  $104 \div 8 =$

Answer:

Answer:

Answer:

Answer:

Answer:

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# How Did You Do It?

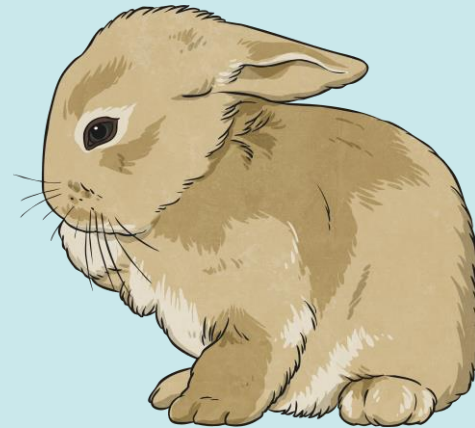


What do we do when the numbers get bigger and the hops start to take too long?

Can we hop more than one group at a time?

Try this

$$48 \div 3 = ?$$



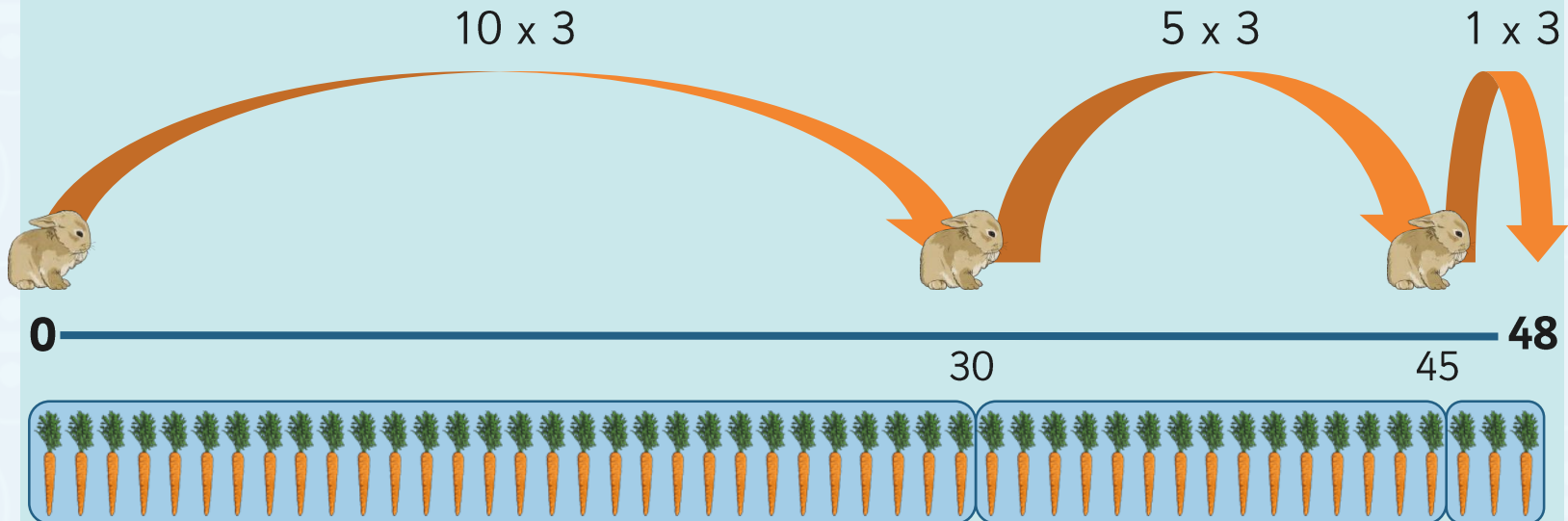
Can you jump 10 groups of 3 in one go?



# How Did You Do It?



$$48 \div 3 = ?$$



$$48 \div 3 = 16$$

# How Did You Do It?



Now try this:

$$68 \div 4 = ?$$

