1

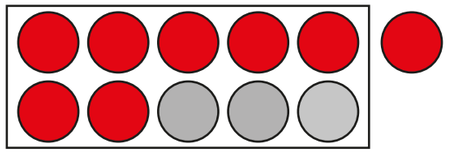
How shall I add?

4 + 1, 6 + 3, 10 + 4
Number facts
Single digit numbers
Doubles
Ten and single digits

I just knew it!

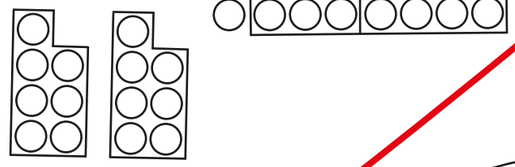
3 + 7
Use known addition facts

If I know 3 + 7 = 10
then I know
3 + 8 = 11
because it is 1 more

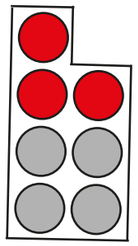


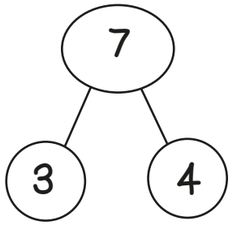
7 + 8
Use near doubles

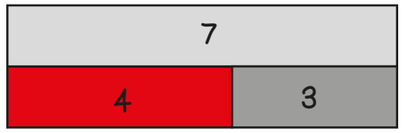
If I know 7 + 7 = 14
then I know
7 + 8 = 15
because it is 1 more



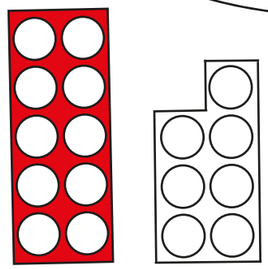
7 = 3 + 4
Secure addition bonds of single digits and ten

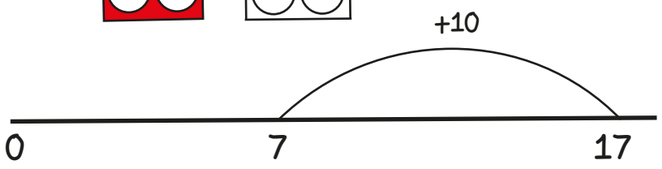




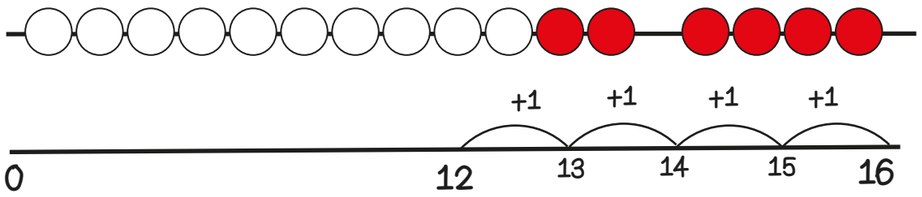


7 + 10
Add ten





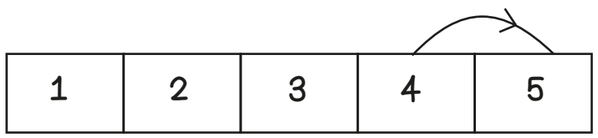
12 + 4
Counting on in 1s

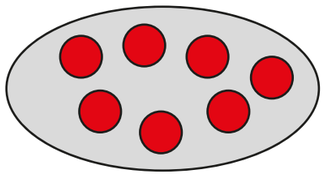


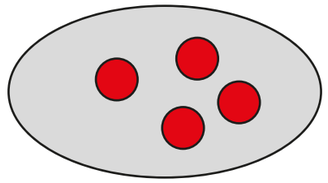
Notice the relationships

24 + 1
Find one more

1 more than 4 is 5
1 more than 14 is 15
1 more than 24 is 25







7 + 4
Count all

1

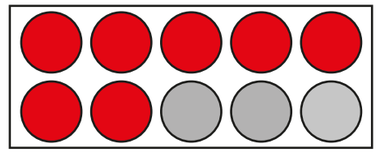
How shall I subtract?

5 - 1, 7 - 3, 10 - 6
Number facts
Single digit numbers
Teens subtract single digits

I just knew it!

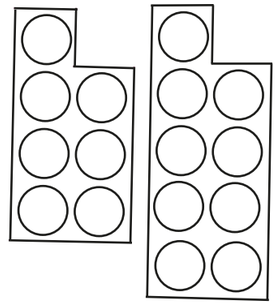
3 + 7
Use known addition facts to derive subtraction facts

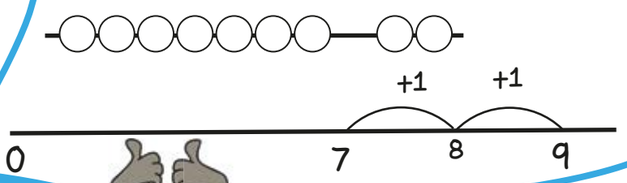
If I know 3 + 7 = 10
then I know
10 - 3 = 7

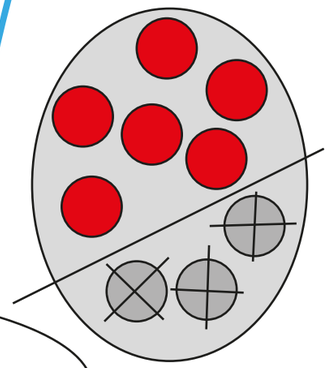


9 - 7
Find the difference between two numbers

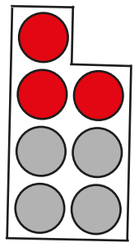
9 is 2 more than 7
7 is 2 less than 9 so
the difference
between 7 and 9 is 2

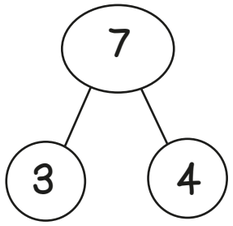






7 - 3 = 4
Secure subtraction facts of single digits and ten

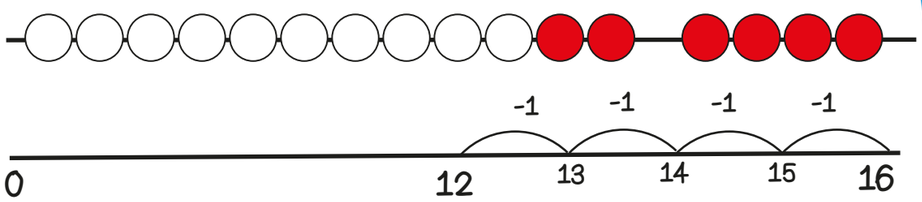




7	
4	3

9 - 3
Take away

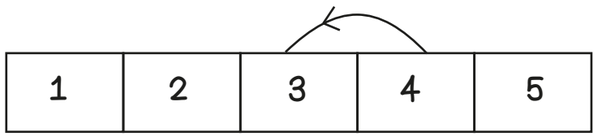
16 - 4
Counting back in 1s



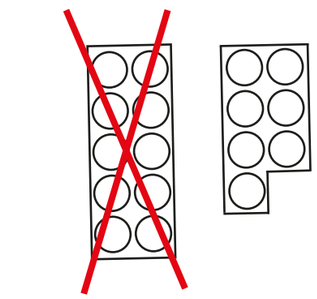
Notice the relationships

23 - 1
Find one less

1 less than 4 is 3
1 less than 14 is 13
1 less than 24 is 23

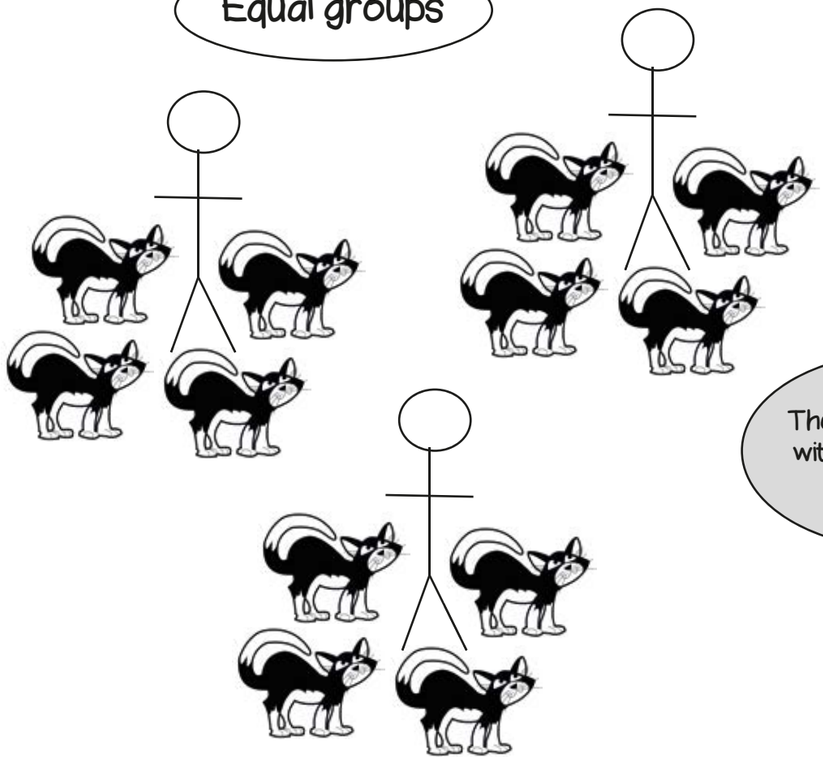


17 - 10
Take away ten



1

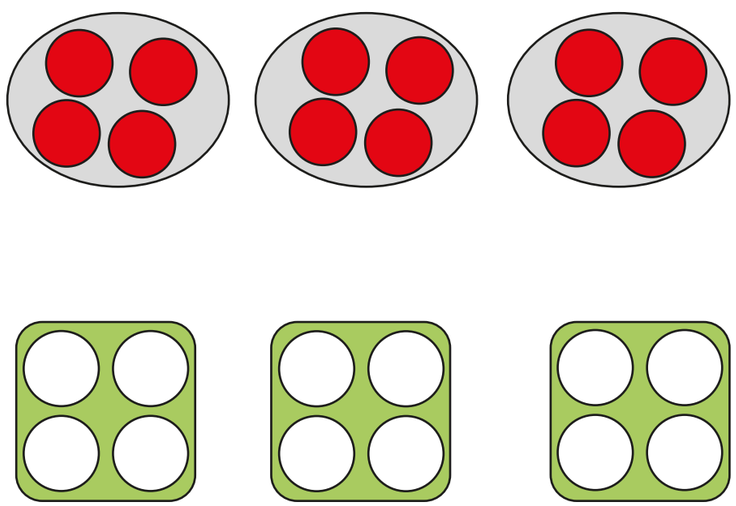
Equal groups



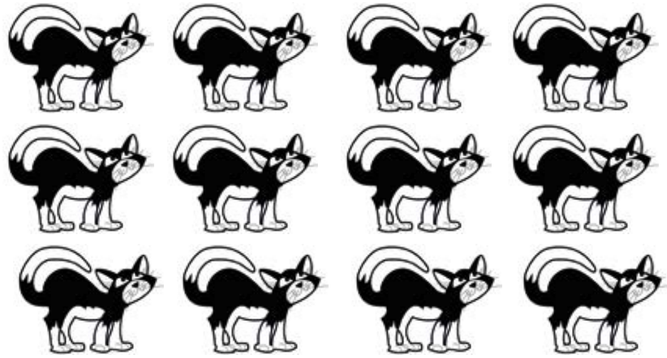
There are 3 groups with 4 cats in each group

Count in ones

1,2,3,**4**,5,6,7,**8**,9,10,11,**12**

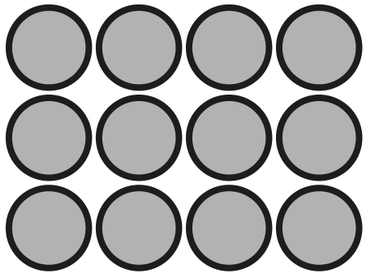


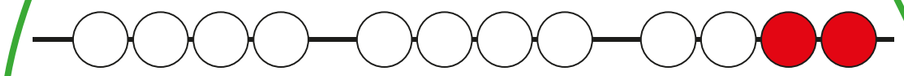
3 people each have 4 cats. How many cats are there in total?



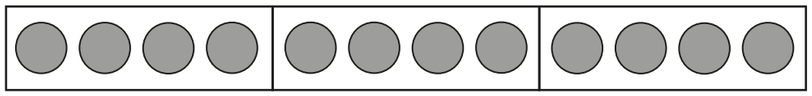
How shall I multiply?

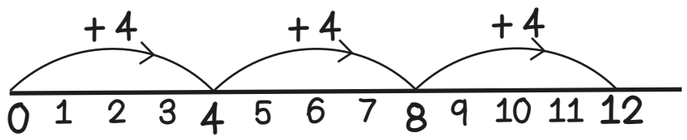
Arrays



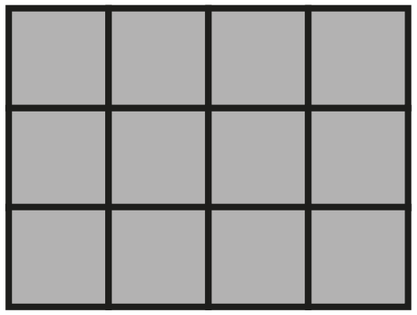


Repeated addition





4 + 4 + 4 = 12



1

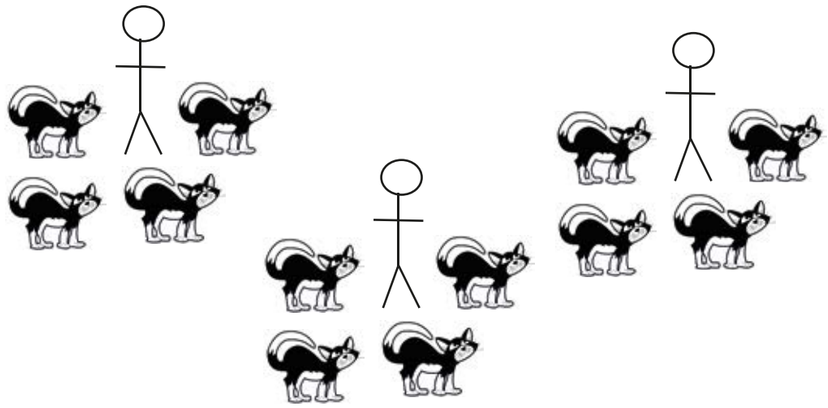
$12 \div 3 = 4$

How shall I divide?

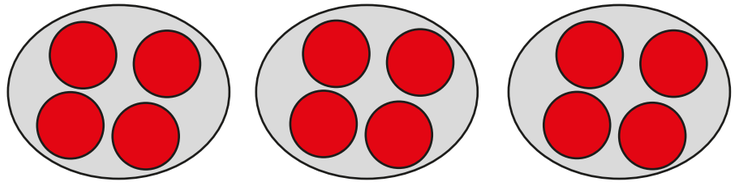
Sharing

12 shared into 3 equal groups

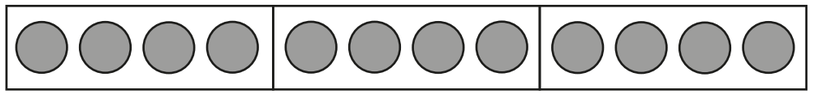
There are 12 cats.
Three people each have the same number of cats.
How many do they have each?

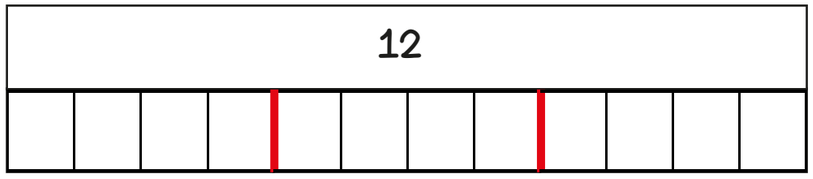


1 for you, 1 for you, 1 for you...

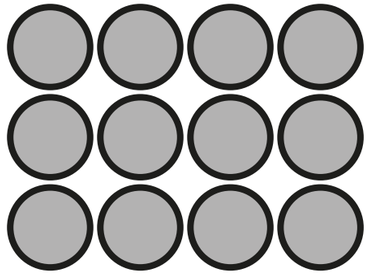


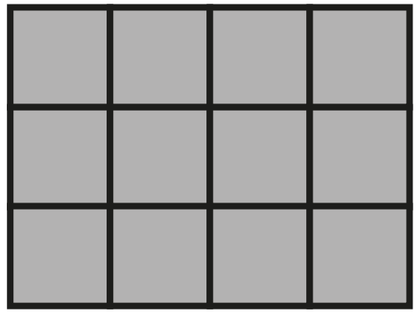
Bar model





12 can be described as
3 columns of 4
or 4 rows of three

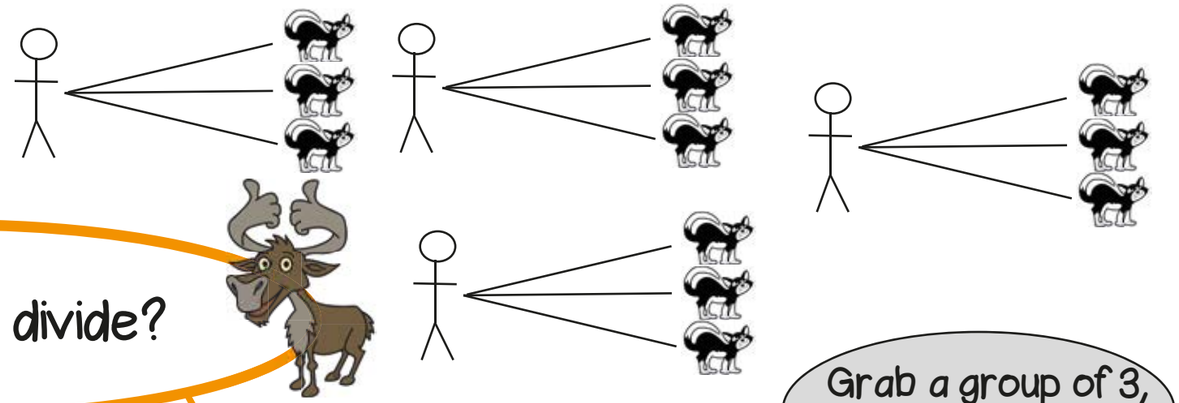




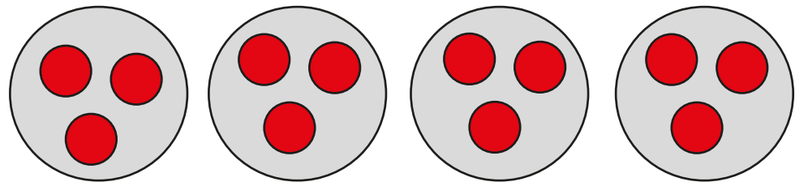
Grouping

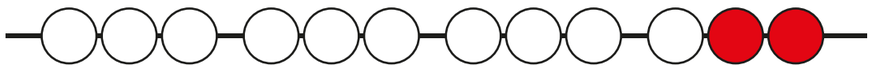
How many groups of 3 are there in 12?

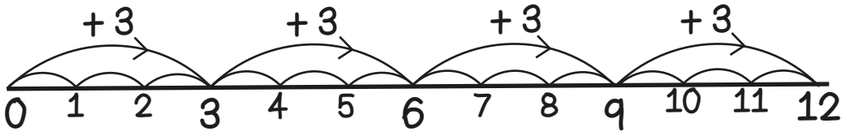
There are 12 cats.
Each person owns 3 cats.
How many people are there?



Grab a group of 3, grab a group of 3...







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