Four friends want to share 12 cookies. They set out 4 plates.

They put 1 cookie on each plate, then repeat.
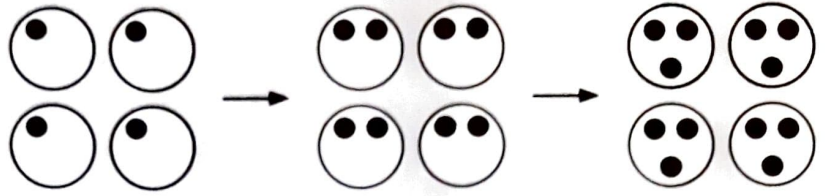
Each plate holds a **set** (or group) of 3 cookies.

When 12 cookies are **divided** (or shared **equally**) into 4 sets, there are 3 cookies **in each set**.

1. Put an equal number of cookies on each plate.
   Hint: Draw the plates, then place 1 cookie at a time.

   a) 6 cookies   3 plates

   b) 9 cookies   3 plates

   c) 8 cookies   2 plates

   d) 5 plates   10 cookies

   e) 2 plates   6 cookies

   f) 4 plates   12 cookies

   g) 4 plates   8 cookies

   h) 2 plates   12 cookies

2. Draw dots for the things being shared equally. Draw circles for the sets.

a) 3 wagons

9 students

How many students in each wagon?
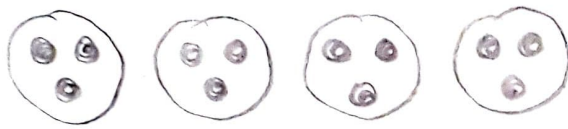
_3_ students in each wagon

b) 15 stamps

3 pages

How many stamps on each page?

_5_ stamps on each page

c) 4 boats

12 students

How many students on each boat?

_3_ students on each boat

d) 2 boxes

10 pens

How many pens in each box?

_5_ pens in each box

3. Draw a picture or make a model to solve the problem.

a) 4 friends share 8 tickets.
   How many tickets does each friend get? 2

b) 12 chairs are placed in 3 rows.
   How many chairs are in each row? 4

c) 24 flowers are planted in 6 rows.
   How many flowers are in each row? 4

d) Edmond earned 20 dollars for his work. He worked 5 hours.
   How much did he earn each hour? 4
   Hint: Draw dots for dollars and circles for hours.

e) Kate earned 15 dollars for her work. She worked 3 hours.
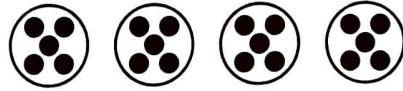   How much did she earn each hour? 5

NS3-49 Sharing When You Know the Number in Each Set

Ivan has 20 apples. He wants to put 5 apples in each bag.

To find out how many bags he needs,
he starts by counting out 5 apples.

He then keeps counting out sets of
5 apples until he has used all 20 apples.

He can make 4 bags. When 20 apples are divided into sets of 5 apples,
there are 4 sets.

1. Put the correct number of dots in each set.

   a)

   2 dots in each set

   b)

   3 dots in each set

   c)

   2 dots in each set

   d)

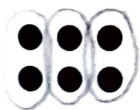   3 dots in each set

   e)

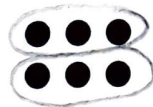   5 dots in each set

   f)

   3 dots in each set

2. Divide the array into the given number of sets.
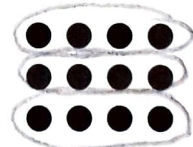
   a) sets of 2

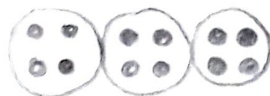   b) sets of 3

   c) sets of 3

   d) sets of 4

3. Draw a picture to solve the problem. Hint: Start by drawing a circle
   and placing the correct number of dots in the circle.

   a) 12 dots

   4 dots in each set

   How many sets? __3__

   b) 15 dots

   5 dots in each set
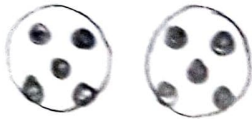
   How many sets? __3__

4. Draw dots for the things being divided equally.
   Draw circles for the sets.

   a) 10 students

      5 students in each wagon

      How many wagons?

      __2__ wagons

   b) 12 stamps

      4 stamps on each page

      How many pages?

      __3__ pages

   c) 20 books

      4 books on each shelf

      How many shelves?

      __5__ shelves

   d) 15 fish

      5 fish in each tank

      How many tanks?

      __3__ tanks

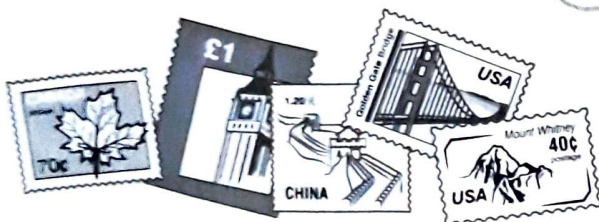5. Sam has 10 oranges. He wants to sell bags of 2 oranges. How many bags can he sell?   ⑤

6. Emma has 12 books. She wants to put 3 books in each bag. How many bags does she need?   ④

7. Raj has 15 stamps. He wants to put 5 stamps on each page of his stamp book. How many pages will he need?   ③

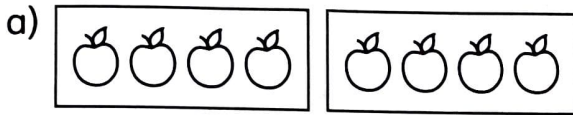8. A sailboat can hold 3 students. There are 12 students. How many sailboats are needed?   ④

12 students go canoeing.
There are 4 canoes.
A canoe holds 3 students.

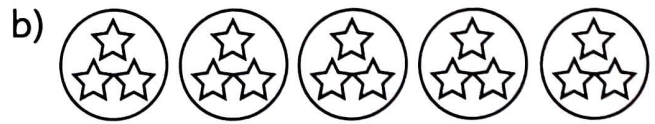What has been shared or divided into sets?   *Students.*

How many sets are there?   *There are 4 sets of students.*

How many are in each set?   *There are 3 students in each set.*

1. Fill in the blanks.

a)

What has been shared or divided

into sets? __apples__

How many sets? __2__

How many in each set? __4__

b)

What has been shared or divided

into sets? __Stars__

How many sets? __5__

How many in each set? __3__

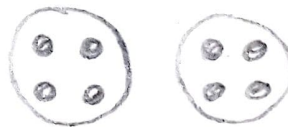2. Draw a picture to show the situation. Use circles for sets and
dots for items.

a) 3 sets   4 items in each set

b) 4 sets   5 items in each set

c) 2 groups   3 items in each group

d) 2 groups   4 items in each group

3. Fill in the table.

		What Has Been Shared or Divided into Sets?	How Many Sets?	How Many in Each Set?
a)	15 students 3 students in each boat 5 boats	students	5	3
b)	5 friends 20 cookies 4 cookies for each friend	cookies	5	4
c)	18 oranges 6 boxes 3 oranges in each box	oranges	6	3
d)	4 dogs 20 spots 5 spots on each dog	spots	4	5
e)	5 stamps on each page 35 stamps 7 pages	stamps	7	5
f)	3 playgrounds 12 swings 4 swings in each playground	swings	3	4
g)	5 people in each house 10 people 2 houses	people	2	5
h)	20 chairs 5 rows 4 chairs in each row	chairs	5	4