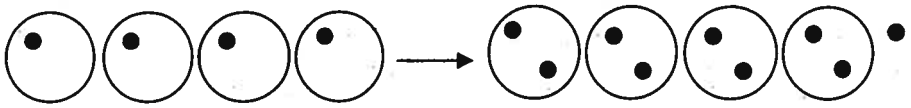
NS5-38: Remainders

Guy wants to share 9 apples with 3 friends.
He sets out 4 plates, one for himself and one for each of his friends.
He puts one apple at a time on a plate:



There is one apple left over.

9 apples cannot be shared equally into 4 sets. Each person gets 2 apples, but one is left over.

9 ÷ 4 = 2 Remainder 1 OR 9 ÷ 4 = 2 R 1

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1. Can you share 7 apples equally onto 2 plates? Show your work using dots and circles:

2. Share the dots as equally as possible among the circles.

   a) 8 dots in 3 circles

   ____ dots in each circle; ____ dots remaining

   b) 13 dots in 4 circles

   ____ dots in each circle; ____ dot remaining

3. Share the dots as equally as possible. Draw a picture and write a division statement.

   Example: 9 dots in 2 circles

   9 ÷ 2 = 4 R1

   a) 14 dots in 4 circles

   b) 18 dots in 6 circles

   c) 17 dots in 4 circles

   d) 22 dots in 3 circles

4. Five children want to share 22 sea shells.
   How many shells will each child receive?
   How many will be left over?

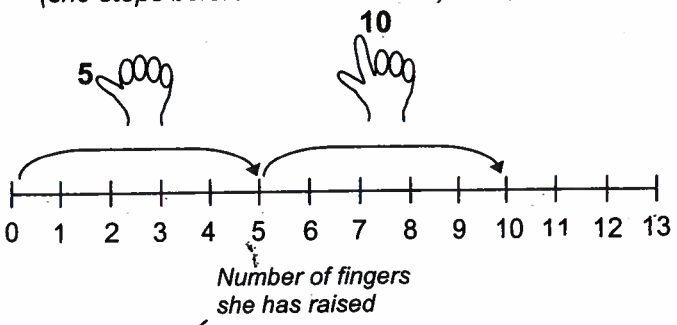
5. Find two different ways to share 29 pens into equal groups so that one is left over.

6. Four friends have more than 7 stickers and less than 13 stickers.
   They share the stickers evenly. How many stickers do they have?
   (Is there more than one answer?)

NS5-39: Dividing with Remainders

Nina wants to find 13 ÷ 5 mentally.

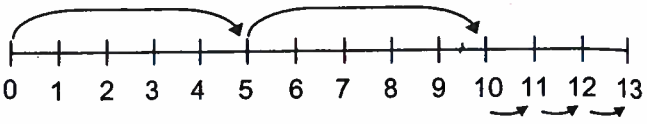
Step 1:
Counting by 5s, she raises 2 figures (she stops before she reaches 13).



Number of fingers she has raised

13 ÷ 5 = 2 Remainder ___

Step 2:
Nina stopped counting at 10.
She subtracts 10 from 13 to find the remainder.



13 ÷ 5 = 2 Remainder 3

1. Try to answer the following questions in your head (or by skip counting):

a) 22 ÷ 5 = _____ R _____ b) 17 ÷ 5 = _____ R _____ c) 31 ÷ 5 = _____ R _____

d) 27 ÷ 5 = _____ R _____ e) 13 ÷ 5 = _____ R _____ f) 7 ÷ 5 = _____ R _____

g) 13 ÷ 3 = _____ R _____ h) 17 ÷ 3 = _____ R _____ i) 23 ÷ 3 = _____ R _____

j) 23 ÷ 7 = _____ R _____ k) 19 ÷ 6 = _____ R _____ l) 25 ÷ 8 = _____ R _____

m) 37 ÷ 9 = _____ R _____ n) 43 ÷ 7 = _____ R _____ o) 29 ÷ 8 = _____ R _____

p) 13 ÷ 6 = _____ R _____ q) 47 ÷ 9 = _____ R _____ r) 64 ÷ 7 = _____ R _____

s) 53 ÷ 9 = _____ R _____ t) 46 ÷ 6 = _____ R _____ u) 23 ÷ 4 = _____ R _____

2. Richard wants to divide 18 peaches between 5 friends.

How many peaches will each friend get? _____

How many will be left over? _____

3. Paul puts 16 pencils in three boxes.

How many pencils will go in each box? _____

How many will be left over? _____