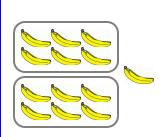
When Division Is Not Exact



If you divide 13 bananas evenly between Joe and Sally, how many does each one get?

$$13 \div 2 = ?$$

Joe and Sally each get 6 bananas and one is left over. We write this as:

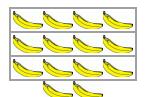
$$13 \div 2 = 6 \text{ R1}$$

The leftover banana is called **the remainder**, and is indicated after the letter R.

(If we didn't want any leftovers, then both could get 6 1/2 bananas.)

1. Fill in the blanks.

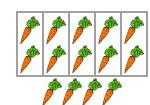
a. 14 bananas divided among 3 people gives 4 bananas to each and 2 bananas that cannot be divided evenly.



$$14 \div 3 = 4$$
,

remainder 2

b. 14 carrots divided among 5 people gives 2 carrots to each and 4 carrots that cannot be divided evenly.



$$14 \div 5 = 2$$
,

remainder 4

c. 8 scissors divided among 5 people gives 1 pair of scissors to each and 3 pairs that cannot be divided evenly.



remainder

d. 3 apples divided among 5 people means we cannot share them equally.So, no one gets any apples.All 3 are left over.



$$3 \div 5 = 0,$$

remainder

e. ___ rams divided among 6 people gives ___ rams to each and ___ rams that cannot be divided evenly.



$$=$$
 \div 6 = $=$ $=$ $=$ $=$

remainder .

f. ___ camels divided between 2 people gives ___ camels to each person, and __ camel left over.



remainder _____.

Here's another way of looking at division and remainder. How many groups of 2 can we make out of 13 apples?

We can make six groups. One apple is left over.

$$13 \div 2 = 6 \text{ R}1$$

2. Divide the dots into groups and write a division sentence.

a. Divide into groups of 3.

20 ÷ 3 = ____

remainder

b. Divide into groups of 4.

 $21 \div 4 =$

remainder

c. Divide into groups of 6.

÷ 6 =

remainder

d. Divide into groups of 5.

÷ 5 =

remainder

e. Divide into groups of 7.

÷ 7 = ____

remainder

f. Divide into groups of 9.

÷ 9 =

remainder _____

g. Divide into groups of 3.

 $\div 3 =$

remainder

h. Divide into groups of 5.

÷ 5 =

remainder

$$4 \div 5 = ?$$

How many groups of 5 can we make out of 4 apples?

No groups. All four apples are left over.

$$4 \div 5 = 0 \text{ R4}$$

3. Divide and indicate the remainders.

a.
$$7 \div 2 = R$$

$$1 \div 2 = \underline{\qquad} R_{\perp}$$

a.
$$7 \div 2 =$$
 ____ R ___ **b.** $3 \div 4 =$ ____ R ___ **c.** $18 \div 5 =$ ____ R ___

$$1 \div 2 =$$
____ R ____ $7 \div 6 =$ ____ R ____

c.
$$18 \div 5 = R$$

$$7 \div 6 =$$
_____ R ____