## 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:

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

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 $61 / 2$ 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. $14 \div 3=4$ <br> remainder 2 | b. 14 carrots divided among 5 people gives 2 carrots to each and 4 carrots that cannot be divided evenly. $14 \div 5=2$ <br> remainder 4 |
| :---: | :---: |
| c. 8 scissors divided among 5 people gives 1 pair of scissors to each and 3 pairs that cannot be divided evenly. $8 \div 5=$ $\qquad$ <br> remainder $\qquad$ | d. 3 apples divided among 5 people means we cannot share them equally. So, no one gets any apples. All 3 are left over. $3 \div 5=0$ <br> remainder $\qquad$ |
| e. $\qquad$ rams divided among 6 people gives $\qquad$ rams to each and $\qquad$ rams that cannot be divided evenly. $\qquad$ $\div 6=$ $\qquad$ <br> remainder $\qquad$ | f. $\qquad$ camels divided between 2 people gives $\qquad$ camels to each person, and $\qquad$ camel left over. $\qquad$ $\div 2=$ $\qquad$ <br> 用 <br> remainder $\qquad$ |

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.
$13 \div 2=6 \mathrm{R} 1$
2. Divide the dots into groups and write a division sentence.

| a. Divide into groups of 3 . $20 \div 3=$ $\qquad$ <br> remainder $\qquad$ | b. Divide into groups of 4 . <br> -•••• $\cdot$ $21 \div 4=$ $\qquad$ remainder $\qquad$ | c. Divide into groups of 6 . $\qquad$ $\div 6=$ $\qquad$ <br> remainder $\qquad$ | d. Divide into groups of 5 . $\qquad$ $\div 5=$ $\qquad$ <br> remainder $\qquad$ |
| :---: | :---: | :---: | :---: |
| e. Divide into groups of 7 . $\qquad$ $\div 7=$ $\qquad$ <br> remainder $\qquad$ | f. Divide into groups of 9 . $\qquad$ $\div 9=$ $\qquad$ <br> remainder $\qquad$ | g. Divide into groups of 3 . $\qquad$ $\div 3=$ $\qquad$ <br> remainder $\qquad$ | h. Divide into groups of 5 . $\qquad$ $\div 5=$ $\qquad$ <br> remainder $\qquad$ |

$$
4 \div 5=? \quad \text { How many groups of } 5 \text { can we make out of } 4 \text { apples? }
$$

$$
4 \div 5=0 \mathrm{R} 4
$$

3. Divide and indicate the remainders.

| a. $7 \div 2=\ldots \mathrm{R}$ | b. $3 \div 4=$ $\qquad$ R | c. $18 \div 5=$ $\qquad$ R |
| :---: | :---: | :---: |
| $1 \div 2=$ $\qquad$ R | $11 \div 2=$ $\qquad$ $\mathrm{R}$ | $7 \div 6=$ $\qquad$ |

