

LONG DIVISION WORD PROBLEMS

1. Zookeeper Al wants to give each monkey at the zoo an equal number of bananas. There are 37 monkeys in the zoo and 567 bananas. How many bananas does each monkey get? And How many are left over for him to eat for himself?

$$567 (\# \text{ of bananas}) \div 37 (\# \text{ of monkeys}) = 15 \text{ remainder } 12$$

Each monkey gets 15 bananas. Zookeeper Al will have 12 bananas left over for himself.

2. Betty has 427 oranges and needs to pack them up equally in 23 boxes. How many oranges go in each box? and How much does she have left over?

$$427 (\# \text{ of oranges}) \div 23 (\# \text{ of boxes}) = 18 \text{ remainder } 13$$

Betty puts 18 oranges per box and has 13 oranges left over.

3. Miss King has 1376 pages of scrap paper. She wants to make them into scrap paper packets for her 32 students. How many pages will each packet have? How many extra pages will she have left over?

$$1376 (\# \text{ pages of scrap paper}) \div 32 (\# \text{ of students}) = 43 (\text{ pages in packet})$$

no remainders

Each packet will have 43 pages in each packet. There are no extra pages left over.

4. Mr. Chong has 1440 pages of scrap paper. He instead wants to have 40 pages per packet but forgets to check if there will be enough for his 37 students. Will there be enough packets per student? If not how much more scrap paper does he need?

$$1440 (\# \text{ pages of scrap paper}) \div 40 (\text{ pages in each packet}) = 36 \text{ packets}$$

$$37 (\text{ students}) - 36 (\text{ packets}) = 1 (\text{ remaining})$$

$$1 (\text{ remaining packet needed}) \times 40 (\text{ pages in each packet}) = 40 \text{ pages}$$

No there will not be enough pages per packet for Mr. Chong's students. He still needs 40 more pages of scrap paper.