## Zero in Division

There are 525 pencils in the supply room. They are to be divided evenly among 5 classes. How many pencils will each class receive?

You will use division to find the answer. $525 \div 5=n$

## STEP :

Since 5 hundreds can be divided by 5 , the first digit is in the hundreds place.

Compare $0<5$
Divide.

STEP 2:
Bring down the tens. Divide I ten. Since $5>2$, write 0 in the quotient.

| $\frac{10}{525}$ | Multiply |
| :---: | :---: |
| $\underline{5}$ | $5 \times 0=0$ |
| 02 | Subtract |
| $\underline{0}$ | $2-0=2$ |
| 2 | Compare |
|  | $2<5$ |

STEP 3:
Bring down the ones. Divide.
$5 \longdiv { 1 0 5 }$
5
02
0
25
25
Multiply
$5 \times 1=5$
Subtract $\dagger$
$5-5=0$

Multiply
Subtract
$5-5=0$

1 ten Since $5>2$, write 0

So, each class will receive 105 pencils.

