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 1:

Since 5 hundreds can be divided by 5, the first digit is in the hundreds place. Compare 0<5 Divide.	5)525 $5)525$ 0	Multiply 5×I=5 Subtract 5–5=0
STEP 2: Bring down the tens. Divide I ten. Since 5 > 2, write 0 in the quotient.	$ \begin{array}{r} 10\\ 5)525\\ \underline{5}\\02\\ \underline{0}\\2\end{array} \end{array} $	Multiply 5×0=0 Subtract 2-0=2 Compare 2<5
STEP 3: Bring down the ones. Divide.	$ \begin{array}{r} 105 \\ 5) 525 \\ 5 \\ 02 \\ 0 \\ 25 \\ 25 \\ 25 \\ 0 \end{array} $	Multiply 5×5=25 Subtract 25 - 25 = 0 Compare 0<5

So, each class will receive 105 pencils.

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