Long Division of Large Numbers - Guided Lesson Explanation

Explanation#1

- a) Step 1) First we have to see what we have to calculate
- "54588 divided by 12"

Step 2) Look at the first two digits. The first two digits are greater than 12. Start with the first two digits. Divide the thousands.

$$12 X 4 = 48$$

$$54-48 = 6$$

Bring down the hundreds. Divide the hundreds.

$$12 \times 5 = 60$$

$$65 - 60 = 5$$

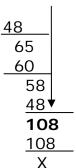
Bring down the tens. Divide the tens.

10

$$12 X 4 = 48$$

$$58 - 48 = 10$$

Now divide again.



$$108 - 108 = 0$$

Step 3) The answer is 4549.

b) Step 1) First we have to see what we have to calculate

Step 2) Look at the first two digits. The first two digits are more than 14. Start with the first two digits. Divide the thousands.

$$16-14. = 2$$

Bring down the tens. Divide the tens

$$14 X 2 = 28$$

$$29 - 28 = 1$$

Bring down the ones. Divide the ones.

$$14 X 1 = 14$$

$$14 - 14 = 0$$

Explanation#2

Step 1) Identify what is being asked of you.

"How many cakes did Wilson purchase?"

Step2) We are looking for how units of \$200 can be divided in the total cost of the crate. Now divide \$8,000 by \$200.

$$8000 / 200 = 40$$

Step 3) So, there are 40 cakes in the crate.

Explanation#3

Step 1) First we have to see what we have to calculate

"Is 44,604 divisible by 18"

Step 2) Look at the first two digits. The first two digits are more than 18. Start with the first 2 digits. Divide the ones.

$$18 X 2 = 36$$

$$44 - 36 = 8$$

Bring down the hundreds. Divide the hundreds.

<u>72</u> 14

$$18 X 4 = 72$$

Bring down the tens. Divide the tens.

Bring down the ones. Divide the ones.

$$18 X 8 = 144$$

$$144 - 144 = 0$$