Name _____ Date _____

Long Division of Large Numbers - Step-by-Step Lesson

a) Is 634,450 divisible by 25?

Explanation:

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

634,450 ÷ 25

Step 2a) Look at the first two digits. The first two digits are more than 25. Start with the first 2 digits. Divide the ones.

```
    2
25) 634,450          25 X 2 = 50
   50                63-50 = 13
   134
```

Bring down thousands. Divide the thousands.

```
    25
25) 634,450          25 X 6 = 125
   50↓               134- 125 = 9
   134
   125
     9
```

Bring down the hundreds. Divide the hundreds.

```
    253
25) 634,450
   50 |              25 X 3 = 75
   134|
   125↓              94 – 75 = 19
     94
     75
     19
```

Name _____ Date _____

Bring down the tens. Divide the tens.

```
     2537 8
   ---------
25) 634,450
    50
    134
    125
      94
      75
     ---
     195
     175
     ---
      20
```

25 X 7 = 175
195 – 175 = 20

Bring down the ones and divide.

```
     25378
   ---------
25) 634,450
    50
    134
    125
      94
      75
     ---
     195
     175
     ---
      200
      200
      ---
        X
```

Step 3a) The answer is 25,378.