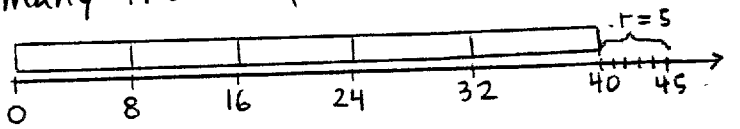
1) Tom has 77 marbles in his collection. He puts 12 marbles in a bag. How many bags of marbles can he make? How many marbles will be left over?

$77 \div 12 = 6\ R\ 5$ Tom will have 6 bags and 5 marbles are left over.

5) MEASUREMENT division for $45 \div 8$ (ASK: 45 is how many groups of 8?) Mary has 45 inches of ribbon She needs to cut The ribbon into pieces That are each 8 inches long. How many pieces can she cut? How many inches of ribbon will be left over?




```
   5     < number of pieces
8) 45
   40    < 5 pieces of length 8
   --
    5    < inches remaining
```

6) a)

```
   2 1 8 2
8) 17,456
   16 000   < 2 segments of length 8000 (or (2000) segments of length 8)
   -------
    1 456   < 1456 left
      800   < 1 segment of length 800 (or (100) segments of length 8)
    -----
      656   < 656 left
      640   < 8 segments of length 80 (or (80) segments of length 8)
    -----
       16   < 16 left
       16   < (2) segments of length 8
    -----
        0
```

HOW MANY eights are in 17,456?

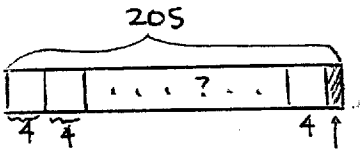
answer: 2182 eights

b) LONG DIVISION ALGORITHM

```
   2 1 8 2
8) 17,4 5 6
   16
   ----
    1 4
    8
    ---
      6 5
      6 4
      ---
        1 6
        1 6
        ---
          0
```

7) (3A, p 65, PRACTICE 3G)

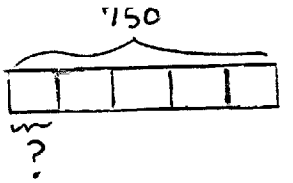
Problem 6




```
   5 1 R 1
4) 2 0 5
   2 0
   ---
     5
     4
     -
     1
```

There are 51 boxes and 1 muffin left over

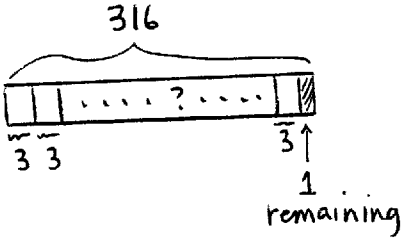
Problem 7



$$\begin{array}{r} 150 \\ 5\overline{)750} \\ 5 \\ \hline 25 \\ 25 \\ \hline 0 \end{array}$$

Each packet weighs 150 g

Problem 8

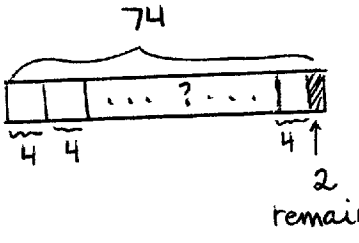


$$\begin{array}{r} 105\ R1 \\ 3\overline{)316} \\ 3 \\ \hline 1 \\ 0 \\ \hline 16 \\ 15 \\ \hline 1 \end{array}$$

He makes 105 bags

1 orange left over.

Problem 9

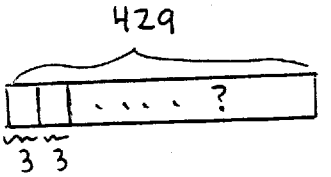


$$\begin{array}{r} 18\ R2 \\ 4\overline{)74} \\ 4 \\ \hline 34 \\ 32 \\ \hline 2 \end{array}$$

He can make 18 cars

2 wheels left over.

Problem 10



$$\begin{array}{r} 143 \\ 3\overline{)429} \\ 3 \\ \hline 12 \\ 12 \\ \hline 9 \\ 9 \\ \hline 0 \end{array}$$

There are 143 pieces