Name_____

Division of Whole Numbers, Remainders
Word Problems
(4.NBT.6)

Directions: Solve the following word problem using numbers and words.

Harry sells 2 liter bottles of soda. He wants to place them in the new cases he bought. If each case only holds 8 2 liter bottles, how many cases does he need if he has 678 2 liter bottles of soda? Show all of your work and explain your answer.

Answer: _____

KEY

Answer:

85 cases

678 ÷ 8 = 84 r 6

```
   678                        8

  -400             ┌──────────┐  50      50
   278             │   400    │
                   ├──────────┤
  -160             │   160    │  20      20
                   ├──────────┤
   118             │    80    │
                   │          │  10      10
   -80             ├──────────┤
    38             │    32    │
                   └──────────┘  4      +  4
   -32                            r 6      84
     6
```

678 divided by 8 equals 84. There is a remainder of 6. Harry still needs to put the 6 left over

sodas in a case so he will need one more case. That makes 85 cases. Harry needs 85 cases.