

PSS: Interpret the Remainder

When there is a remainder in a division problem, you need to look at the question to see what is being asked.

You may drop the remainder, or round the quotient to the next greater whole number, or you may use the remainder as a fraction part of your answer.

Amna made punch with 45 ounces of orange juice, 32 ounces of pineapple juice, and 54 ounces of soda. How many 6-ounce servings did she make?

$$45 + 32 + 54 = 131 \text{ oz}$$

$$\begin{array}{r} 21 \text{ r}5 \\ 6 \overline{) 131} \\ \underline{12} \\ 011 \\ \underline{6} \\ 5 \end{array}$$

There are 5 ounces left over.
That is not enough for another
6-ounce serving. Drop the remainder.

So, Amna made 21 six-ounce servings.

My Real Life

Tell how you would interpret the remainder. Then give the answer?

Hana has 445 books in her library. She needs to pack them in boxes. Each box has a capacity of 20 books. How many boxes does Hana need?

$$\begin{array}{r} 22 \text{ r}5 \\ 20 \overline{) 445} \\ \underline{40} \\ 45 \\ \underline{40} \\ 5 \end{array}$$

Hana needs 22 boxes. There are 5 books left out.

