

Order of Operations Word Problem Step-by-Step Lesson

Kahuna Killer Coffee House is reviewing the amount of coffee they have stored in their warehouse. They find 9 pallets of coffee boxes in the warehouse. Each pallet of coffee contains 24 boxes of coffee bags. Each box of coffee contains 6 bags of coffee. Each bag of coffee makes 70 cups of coffee.

After examining the pallets, they realize that 4 boxes of coffee are damaged and unusable.

How many cups of coffee can they make with the remaining coffee in their warehouse?



Explanation:

It's always helpful to create a small key for yourself.

1 pallet of coffee = 24 boxes of coffee

1 box of coffee = 6 bags of coffee

1 bag of coffee = 70 cups of coffee

Let's look at the values we were given:

a. we have 9 pallets of coffee

b. 4 boxes of coffee are damaged

We can write the entire problem in a single string:

$((9 \text{ pallets} \times 24 \text{ boxes}) - 4 \text{ boxes}) \times 6 \text{ bags} \times 70 \text{ cups} = \text{total number of cups}$
boxes present damaged bags of coffee

$(216 \text{ boxes} - 4 \text{ boxes}) \times 6 \text{ bags} \times 70 \text{ cups} = \text{total number of cups}$

$212 \text{ boxes} \times 6 \text{ bags} \times 70 \text{ cups} = 89,040 \text{ cups of coffee}$

