Pocket Watch Glass Sizes

I have a bunch of pocket watch crystals. They are all marked as follows: 21 4/16 22 4/8 What kind of measurement is this? And what kind of fractions? I spent too many hours learning to reduce fractions, and now I see not everyone does?

There are 4 different systems used to measure crystal diameters.

- 1. Three digit whole numbers: This is tenths of a mm Example: 487 = 48.7 mm
- Whole number with 1/16 fractions: This is the common ligne system.
 1 ligne = 2.255883 mm.

Example: 21 10/16 = 21 10/16 x 2.255883 = 48.7 mm.

- Whole number with 1/8 fractions
 This is the ligne system where 0 = 10 lines and each full size increment = 1/2 ligne
- 4. Whole number with 1/4 Fractions: This system is not very popular. I t is called the Lancashire or English System. In this system, 0 = 1 1/30 inches. Each full crystal size increment is 1/30 inch larger than the previous. For example, if the crystal is labelled 26 1/2: 1 1/30 + (26 1/2 X 1/30 = 1.917 inches 1.917 inches X 25.4 mm/inch = 48.7 mm.

(This is extracted from a Crystal Data Sheet produced by Hank & Marge Farrer) Now you can see why this last system is hardly used anymore!

Your crystals use Method #2 and #3.

If it's too confusing, suggest that you re-measure your crystals in mm, and re-label them using Method #1

Hope that this helps.

Mel Kaye