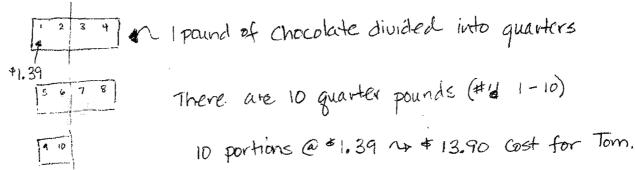
Standard 7.2.2: Apply ratio and proportionality to solve problems, including percent and simple probability.

Student Work Paper 1: Chocolates

Tom wants to buy 2.5 pourds of chocolate that sells at 14 pourd costs \$1.39. This is a vate problem, so I'll use a proportion. But first, I'll draw pictures.



$$\frac{1}{4} = 0.25$$
 $\frac{0.25}{1.39} = \frac{2.5}{x}$ $\frac{0.25 \times = 3.475}{0.25} \times = 13.9$

First, I converted the fractions all to decimals, then I wrote the ratio pounds of chocolate 0.25 = 2.5 x is unknown amount of money 1.39 x money

cross multiply: 0.85x = 3.475, simplify by dividing by 0.25

I usually use proportions to solve rate problems, like "I can do 50 pushups in a minutes. How many can I do in 4 minutes. $\frac{50 \text{ max}}{4} = \frac{2}{4} = \frac{2$

It takes 10 4's to make 2.5. So, since 4 pounds of chocolate is \$1.39, multiply that by 10 10 \$13.90

It will cost Tom \$13.90 to buy the gift for his Mon.