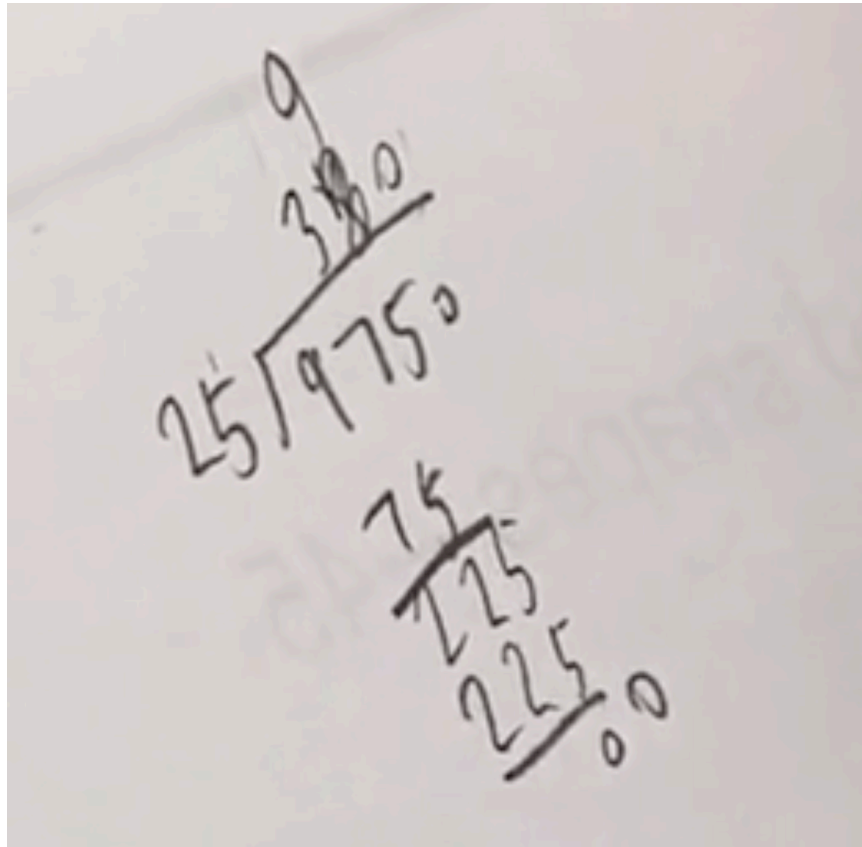


Working on it Screen Captures of Student Work

Using Unit Rate



Constructing Equivalent Rates

20 minutes / 500g — 20 minutes + 2 = 10 minutes
+ 10 minutes 10 minutes / 250g

30 minutes / 750g
+ 10 minutes

40 minutes / 1000g
+ 20 minutes

60 minutes / 1500g
+ 20 minutes

80 minutes / 2000 g
x2

160 minutes / 4000g
x2

320 minutes / 8000g
+ 40 minutes

360 minutes / 9000g

$$9000g + 750g = 9750g$$

$$360 \text{ minutes} + 30 \text{ minutes} = 390 \text{ minutes}$$

First we started with converting kilograms to grams. It was 9.75 kilograms. After that we started creating rates. We figured out that it was taking too long so we used a different operation. After that we started with our calculation. We calculated the grams and the amount of time it took to make the turkey. We found out that it took 390 minutes.

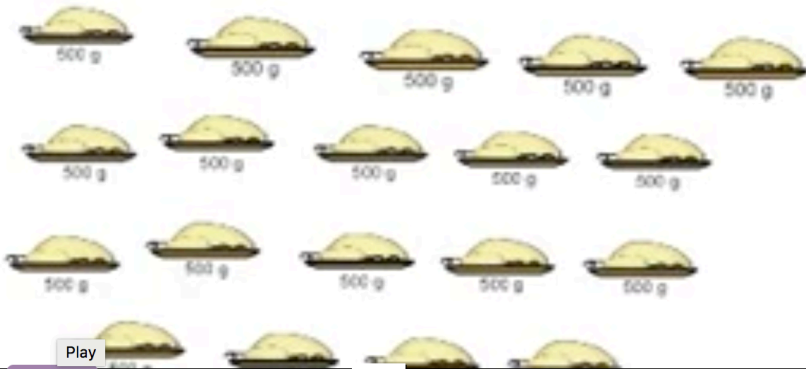
Using Friendly Numbers

A turkey weighs 9.75 kilograms.

It takes about 20 minutes to cook 500 grams of this turkey.
Based on this information, how many minutes does it take to cook the whole turkey?

$$500 \text{ g} = 20 \text{ min.}$$

$$250 \text{ g} = 10 \text{ min.}$$



grams of this turkey.
minutes does it take to

$$9.75 \text{ kg} = 9750 \text{ g}$$

$$500 \text{ g} = 20 \text{ min.}$$
$$250 \text{ g} = 10 \text{ min.}$$

$$500 \times 10 = 5000 \text{ g}$$
$$500 \times 20 = 10000 \text{ g}$$
$$10000 - 500 = 9500 \text{ g}$$
$$9500 + 250 = 9750 \text{ g}$$

$$390 \text{ mins} = 6 \text{ hours } 30 \text{ min.}$$

First we converted 9.75 kg and got 9750 g. Then we did $500 \times 20 = 10\,000$. 20 twenty minutes = 400 min. 400 minutes bakes 10 kg. This is too much. If we do 19 twenty minutes it would bake for 380 minutes or 9 500 g. If we add 10 minutes it would be 390 minutes or 9 750 g. 390 minutes converted to hours equals 6.5 hours.