

Problem of the Day: Anticipated Student Responses(ASR) & ALL Observations

Name: Turkey Time!

Campus: HC / SC

Section: _____

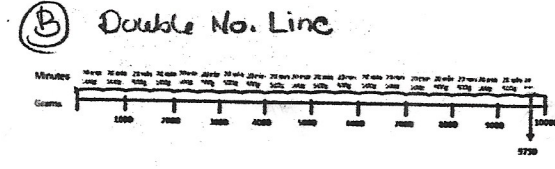
Notes/Questions:

What is the problem asking you to find out?
 What information have you been given?
 What could you use to represent the turkeys? the time?
 Can you simplify the problem?
 Would converting g to kg help you solve the problem? why?
 How can you organize & record your information?
 How do you know you have determined the correct amount of time needed to cook the turkey?
 Could you use estimation to help you solve the problem?

What strategy did you use to help you solve the problem?
 Is there another way that you could solve this problem?
 Is there a more efficient strategy you could have used to determine the cooking time of the turkey?
 Did drawing a diagram using 500 g/turkey help you solve the problem? why?
 Could this mathematical procedure be used in everyday life? why or why not?

Anticipated Student Responses

(A)



(C) Equivalent Rates

20 min / 500g ← → 10 min / 250g

(D) Friendly Nos.

9.75 kg = 9750g

500g = 20 min 500 x 10 = 5000g
 250g = 10 min 500 x 20 = 10000g
 10000 - 5000 = 5000g
 5000 / 250 = 20
 20 x 19.5 = 390 min

(E) Estimating

9.75 kg → 9750g

500 x 20 = 10000g

20m = 400m

10kg

19 min = 380 min

9500g + 10 min = 9750g

390 min = 6.5 hrs.

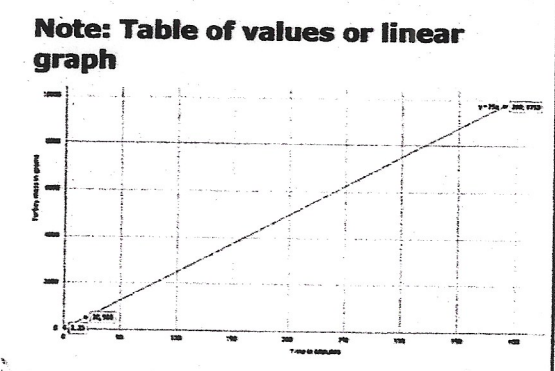
Note: Using division to find multiplicative factor for the equivalent rate directly.

9750g divided by 500g = 19.5 - this is the mul. Factor.

So 20 x 19.5 mins : 500 x 19.5 g = 390 min : 9750 g.

Note: Unit Rate

Minutes	Grams
1	25
20	500
30	750
40	1000
80	2000
160	4000
320	8000
360	9000
390	9750



Students	Math Thinking
Table 1	
(G) / (F)	Table 4
#1 way to imp 20g	(F) 10 kg rate table.
	(A) picture
Table 2	
F uses multiplicative factor of 19.5 need to explain	Table 5
(I)	(F) needed to explain 19.5
	(G) 1 min / 25g
Table 3	
(F) (G) graph	(A) answer table
	Table 6
	(F) (A) table - a table