Pink: Inequalities Word Problems

	Name_
	Write and Solve an Inequality
1.	The NGA hoped to raise more than \$3000 for cancer. Every time a student donated \$40 they would get to pie a math teacher in the face. How many donations would it take for
	the students to reach or exceed their goal?
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3.	Write and Solve an Inequality George wanted to start his own painting business. He bought a ladder and some supplies for \$180. He plans on charging \$10 per hour painting. How many hours will George have to work if he is to make at least a profit of \$750?
4.	Name

Pink: Inequalities Word Problems

Name Key

Write and Solve an Inequality

The NGA hoped to raise more than \$3000 for cancer. Every time a student donated \$40
they would get to pie a math teacher in the face. How many donations would it take for
the students to reach or exceed their goal?

let d be donations

d > 750

Name Key

Write and Solve an Inequality

Beth wanted to go to the school dance but only had \$25 to spend. If the ticket cost \$5 how many cookies could Beth buy at the dance if each cookie costs \$1.25?

$$\frac{1.25c + 5 \le 25}{\frac{1.25c}{1.25}} \le \frac{20}{1.25}$$

C = 16

Let c be cookies

Beth con buy 16 cookies or less. Name Key

Write and Solve an Inequality

3. George wanted to start his own painting business. He bought a ladder and some supplies for \$180. He plans on charging \$10 per hour painting. How many hours will George have to work if he is to make at least a profit of \$750?

- 180 + 18 h ≥ 750 + 180 + 180 10 h ≥ 930 h ≥ 93

George has to work

let h be hours

Name Key

Write and Solve an Inequality

4. Peter begins his kindergarten year able to spell 10 words. He is going to learn to spell 2 new words every day. Write an inequality to determine the minimum number of whole days it will take for him to be able to spell at least 75 words.

 $\frac{10 + 2d \ge 75}{2d \ge 65}$ $\frac{2d \ge 65}{2}$ $d \ge 32.5$

Let d be days

Peter will need to spend 33 days to learn to spell the minimum words