DO NOW

Date: LESSON . 5

a. What is 30% of \$50?

b. A large soda was 2/5 bigger than a small soda. The large soda is what percent larger than a small soda?

c. School A has a populations of 1000 students, school B's population is 20% more than school A. How many students are in school B?

. 20 × 1000

- 200

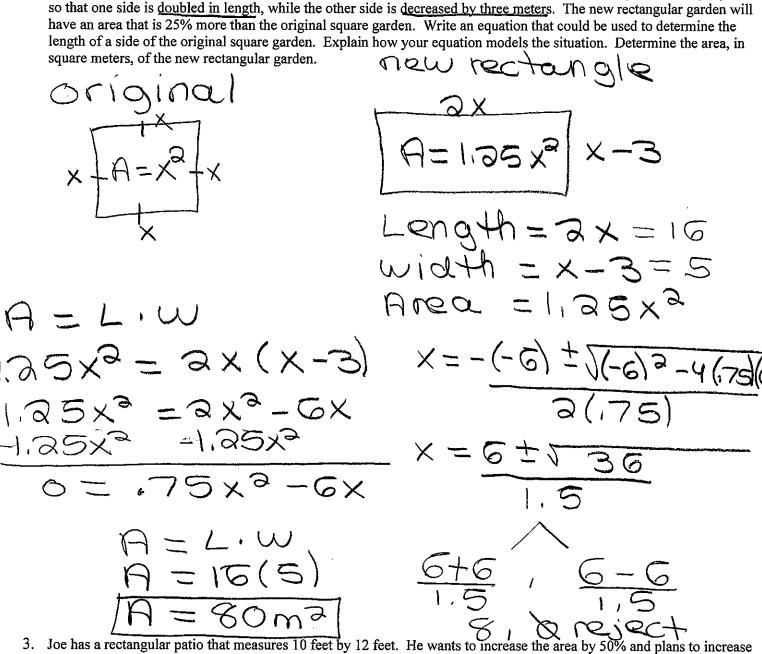
1000

shorter

Aim: Percent Problems

1. Guy and Jim work at a furniture store. Guy is paid \$185 per week plus 3% of his total sales in dollars, x. Jim is paid \$275 per week plus 2.5% of his total sales in dollars, x. Determine the value of x, in dollars, that will make their weekly pay the same.

Jim: Y=.035x+375



2. New Clarendon Park is undergoing renovations to its gardens. One garden that was originally a square is being adjusted

each dimension by equal lengths, x. Which equation could be used to determine x?

$$(10+x)(12+x) = 120$$
 original Increased Area

(2) $(10+x)(12+x) = 180$ $|O(ra) = A$

3) $(15+x)(18+x) = 180$ $|O(ra) = A$

4) $(15)(18) = 120+x^2$ $|O(x) = A$

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The school newspaper surveyed the student body for an article about club membership. The table below shows the number of students in each grade level who belong to one or more clubs. If there are 180 students in ninth grade, what percentage of the ninth grade students belong to more than one club?

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	percentage of the minu	a grade students oct	ong to more u	iaii one ciuo;		1 Club	2 Clubs	3 or More Clubs
130 11th 87 22 18	22	45	\bigcirc	000/	9 th	90	33	12
150	+12	12 =	· 00	10/ CD	10 th	125	12	15
12 th 75 27 23		180	i		11 th	87	22	18
	45	100			12 th	75	27	23