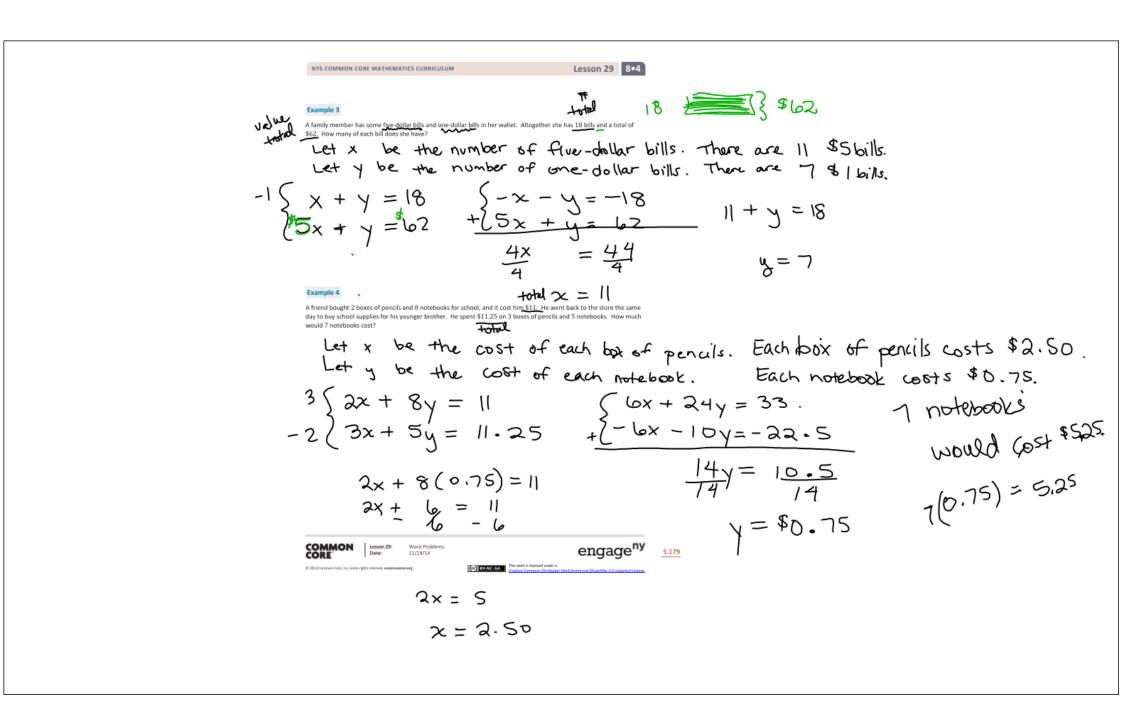
NYS COMMON CORE MATHEMATICS CURRICULUM スルンドカのひから (ス ま ふ) Lesson 29: Word Problems	Lesson 29 8.4 2 different totals	
Classwork Example 1 The sum of two numbers is 361 and the difference between the to Let x be one of	two numbers is 173. What are the two numbers? the numbers "One of the	Lnumbers is 267.
+ Let y be the $t = \frac{1}{3}$ + $(x - y = \frac{1}{3})$	the numbers tone of the other number $+1$ the other - $267 + y = -361$ - -267	ut number is 94.
$\frac{2}{2} = \frac{5}{2} \frac{3}{4}$ Example 2 + $\frac{1}{2} = 2.67$ There are 356 eighth-grade students at Euclid's Middle School. T equal to half the number of boys. How many boys are in eighth g		
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NYS COMMON CORE MATHEMATICS CURRICULUM Lesson 29 8•4
Exercises 1. A farm raises cows and chickens. The farmer has a total of 42 animals. One day he counts the legs of all of his animals and realizes he has a total of 114. How many cows does the farmer have? How many chickens? Let x be the number of cows The farm has IS cows and Let y be the number of chickens 27 chickens $-2 \begin{cases} x + y = 42 \\ 4x + 2y = 114 \end{cases}$ $-2x - 2y = -89 \\ \frac{4x + 2y = 114}{4x + 2y = 114}$
$ \begin{array}{rcl} 4x + 2y = 114 & \frac{4x + 2y = 114}{2x = 30} \\ -15 + y = 42 & x = 30 \\ -15 & y = 27 & x = 15 \end{array} $
2. The length of a rectangle is 4 times the width. The perimeter of the rectangle is 45 inches. What is the area of the rectangle?

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1.) Let x be the number of small boxes containing DVD's.
Let y be the number of large boxes containing a gaming

$$3y + x = 48$$

 $3y + 5x = 72$

2.) Let x be the number of spelling questions
Let y be the number of vocabulary questions
$$\begin{cases} 2x + 5y = 100 \\ x + y = 26 \end{cases}$$

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NYS COMMON CORE MATHEMATICS CURRICULUM	Lesson 29 8•4	
NTS COMMON CORE MATREMATICS CONNECTION		
 The sum of the measures of angles x and y is 127°. If the measure of ∠x is 34⁴ what is the measure of each angle? 	more than half the measure of $\angle y$,	
COMMON Lesson 29: Word Problems	ongogo ^{ny}	
CORE Date: 11/19/14	de under a Attribution AlexCommencial Share Alike 1 Differential Idensity	

NYS COMMON CORE MATHEMATICS CURRICULUM Lesson 29 8-4	
Problem Set	
 Two numbers have a sum of 1,212 and a difference of 518. What are the two numbers? 	
2. The sum of the ages of two brothers is 46. The younger brother is 10 more than a third of the older brother's age. How old is the younger brother?	
3. One angle measures 54 more degrees than 3 times another angle. The angles are supplementary. What are their measures?	
4. Some friends went to the local movie theater and bought four buckets of large popcorn and six boxes of candy. The total for the snacks was \$46.50. The last time you were at the theater, you bought a large popcorn and a box of candy and the total was \$9.75. How much would 2 large buckets of popcorn and 3 boxes of candy cost?	
 You have 59 total coins for a total of \$12.05. You only have quarters and dimes. How many of each coin do you have? 	
6. A piece of string is 112 inches long. Isabel wants to cut it into 2 pieces so that one piece is three times as long as the other. How long is each piece?	
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