Applications of Linear Systems: Geometry/Money Problems

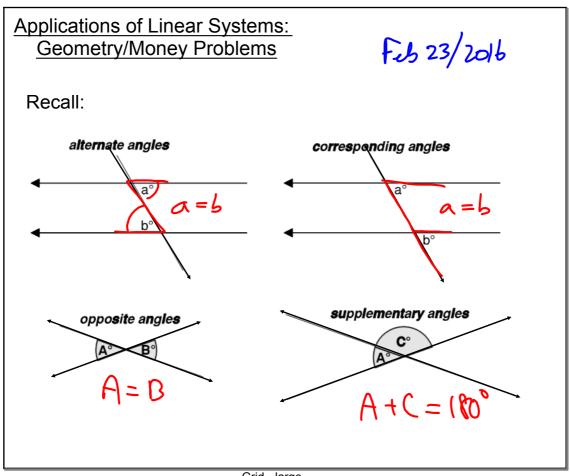
Assigned Work:

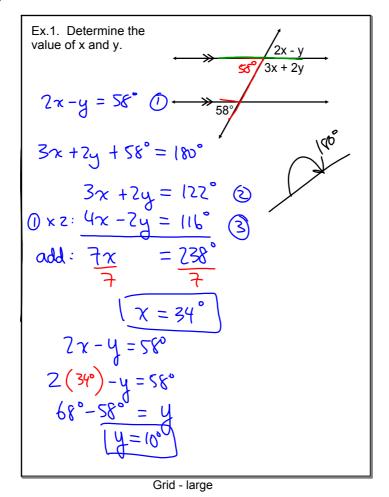
plus:

Erik has \$4.80 in nickels and quarters. If he has 6 more nickels than quarters, how many of each does he have?

Review for Test: p. 62 # 5a, 6, 7bc, 9, 12acd, 13, 14, 16, 17, 18

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Ex.2 The coin box of a vending machine contains half as many quarters as dimes. If the total value of the coins is \$22.50, how many dimes are there?

$$g = \frac{1}{2}d$$
 or $2g = d$

$$0.10d + 0.25q = 22.50$$
 $\boxed{2}$

Ex.3 A rectangle with a perimeter of 180 cm is four times longer than it is wide. What are the dimensions of the rectangle?

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Assigned Work:

p. 40 #17 p. 55 #9

plus:

Erik has \$4.80 in nickels and quarters. If he has 6 more nickels than quarters, how many of each does he have?

Review for Test:

p. 62 #5a, 6, 7bc, 9, 12acd, 13, 14, 16, 17, 18

p. 40 #17

$$n + d + q = 49$$
 (1)

0.05 n + 0.10d + 0.25 q = 5.20 (x100)

5n + 10d + 25 q = 520 (÷5)

 $n + 2d + 5 q = 104$ (2)

 $n + q + 5 = d$ (3)

0: $n + (n + q + 5) + q = 49$
 $2n + 2q + 5 = 49$
 $2n + 2q = 44$ (4)

 $n + q + q = 22$

2: $n + 2(n + q + 5) + 5q = 104$
 $n + 2n + 2q + 10 + 5q = 104$
 $3n + 7q = 94$ (5)

 $4q = 7$

4

 $4q = 7$

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