Math 107
Spring 2017
Lecture 8

Translate Only:

The product of some number and

1 less than twice the number is equal to

45. Use
$$x$$
 for the number:

 $x \cdot (2x-1) = 45$

what percent
$$\frac{P}{12600} = 567$$

P = 126 P = 567

126 P = 567

P = 4.5

4.5/. of 12600 is 567

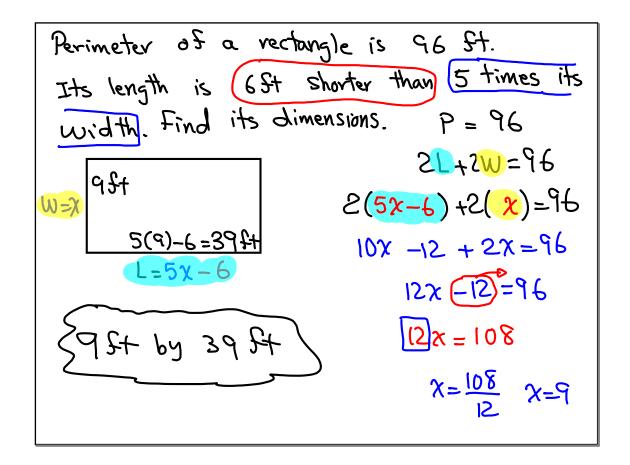
P = 56700

P = 56700

Cross -Mu Hiply P = 56700
P = 4.5

Lisa has 62 Coins. N+D+0=62Nickels, Dimes, and Quarters.

The number of dimes is 3 more than twice the number of nickels. Dime $\rightarrow 2x+3$ The number of quarters is 1 less than three times the number of nickels. How many of each does she have? Quarters $\rightarrow 3x-1$ x + 2x+3 + 3x-1=62 6x+2=62 x=60 x=62-2 x=60 x=60 x=60 x=60 x=60 x=60 x=60



In a triangular garden, one Side is twice another Side.

The third Side is 5 inches shorter than the Sum of other two sides. Sind all three Side if the perimeter is 43 inches. P = 43 A + b + C = 43 A +

Sind two Consecutive integers Such that

the Sum of twice the Smaller and 3 times

The larger one is 88.
$$p \times x \times x + 1$$

2. Smaller + 3. larger = 88 | 7 & 18 |

2.x + 3(x+1) = 88 | 2.17+3.18 \frac{2}{5}88

 $2x + 3x + 3 = 88$
 $5x + 3x + 3 = 88$
 $5x = 88-3$
 $5x = 88-3$

Find two consecutive odd integers Such that twice the larger one is equal to the difference of 165 and 5 times the Smaller one. $2 \cdot larger = 165 - 5 \cdot Smaller$ $23 \neq 25$ 2x + 2 2x + 3x = 165 - 4Ch. 1 - 6 2x + 3x = 161 2x + 23Due Next week