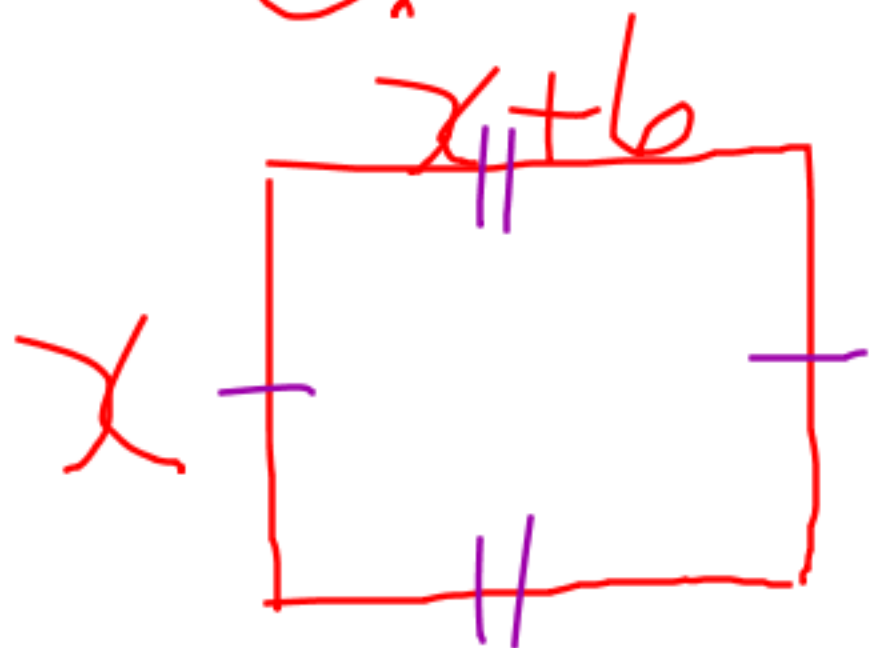


P. 363

Dec. 4

25a |

Given



$$P = 36 \text{ cm}$$

Let x = the width
then let $x+6$ = length

$$P = 2L + 2W$$

$$36 = 2(x+6) + 2x$$

$$36 = 2x + 12 + 2x$$

$$36 = 4x + 12$$

$$\frac{24}{4} = \frac{4x}{4} \quad x = 6$$

Find: the dimensions

the length + width

p. 366

^{Given:}
The sum of 2 numbers is 35.

Find the numbers

Let x = the first number

Then let $35 - x$ = the 2nd #

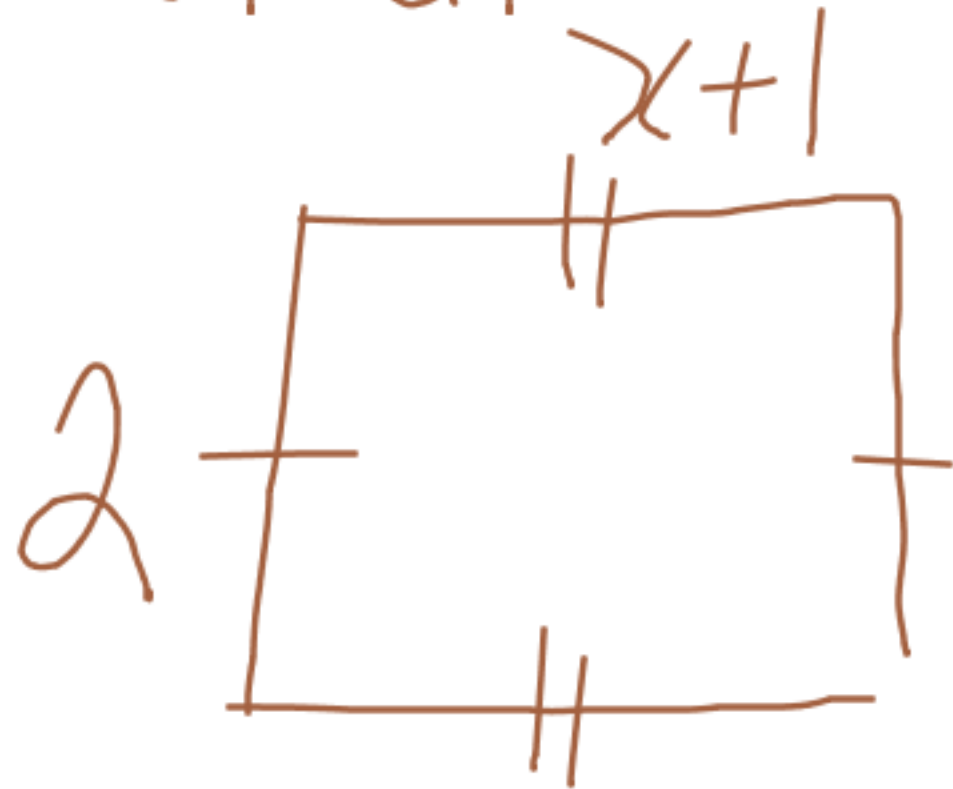
4. Given: the length + the width
of a rectangle total 36cm

Find: the dimensions

Let x = the width

then let $36 - x$ = the length

13. Given



$$A = 12\text{m}^2$$

Find the length

Let $x+1 = \text{length}$

$$A = Lw$$

$$L = \frac{A}{w}$$

$$L = \frac{12\text{m}^2}{2\text{m}}$$

$$L = 6\text{m}$$

17. Given the sum of two #s is 46.

One number is 12 more than other

Find what are the numbers

Let x = the smallest number

Then let $x + 12$ = the larger #

$$\begin{aligned} x + x + 12 &= 46 \\ -12 \quad -12 \\ 2x &= 34 \\ x &= 17 \end{aligned}$$

$$x = 17$$

$$\begin{aligned}\text{second number} &= x + 12 \\ &= 17 + 12 \\ &= 29\end{aligned}$$

∴ The two numbers are
17 and 29.

20. (In a row)
Given: the sum of 3 consecutive
numbers is 105.

Find the numbers

Let x = the first number
Then let $x+1$ = the 2nd number
And let $x+2$ = the 3rd #
$$x + x + 1 + x + 2 = 105$$

$$\rightarrow 3x + 3 = 105 \quad -3$$

$$\frac{3x}{3} = \frac{102}{3}$$

$$1^{\text{st}} \# \quad x = 34$$

$$\begin{aligned} 2^{\text{nd}} \# \quad x + 1 \\ = 34 + 1 \\ = 35 \end{aligned}$$

$$\begin{aligned} 3^{\text{rd}} \# \quad x + 2 \\ = 34 + 2 \\ = 36 \end{aligned}$$

∴ Our three numbers are 34, 35, 36

hw: pg 363 stop at 21