

p. 363

Dec 7/15

2. Given: Mike is 7 years older than Ayla
Qd Sum of ages is 29.

It Find: how old are they

It Let x = Ayla's age

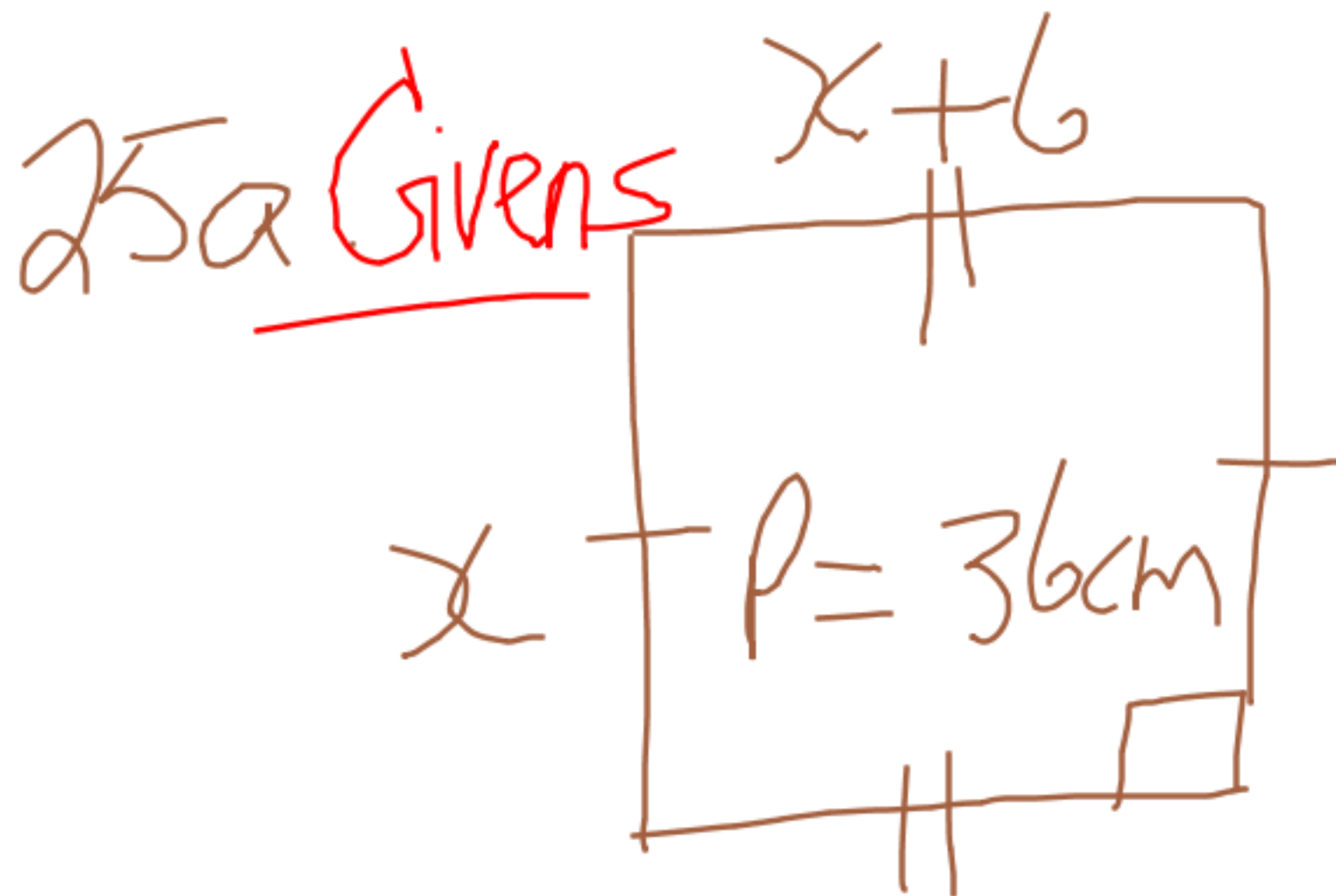
It Then $x+7$ = Mike's age

Ayla is 11
and Mike is 18
(1c) 29

$$\begin{aligned} x + x + 7 &= 29 \\ 2x + 7 &= 29 \end{aligned}$$

$$\begin{aligned} 2x &= 22 \\ x &= 11 \end{aligned}$$

3A



$$P = 2L + 2w$$

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

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

$$36 = 4x + 12$$

Find: the dimensions
(length + width)

Let x = the width
 then let $(x+6)$ = the length
 \therefore the width is 6cm and the
 length $x+6 = 6+6 = 12$ cm.

$$\begin{array}{r} 4x = 4x \\ \underline{4} \quad \underline{4} \\ x = 6 \end{array}$$

p. 366 #11 + 19 full 9pt solutions

1 Lit 9
Pie ..



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p. 366 Each statement has two unknowns. Represent both in terms of x .

1. The sum of two numbers is 35.

Given: Find the numbers

Let $x =$ the first #, then let

Given: 4. The length and width of a rectangle total 36 cm.

Find the dimensions

Let $x =$ the width, then let $36 - x =$ the length

Given: 8. The parking meter has 246 coins in quarters and dimes.

Find: how many quarters + dimes

Let $x =$ the number of dimes
Then let $246 - x =$ # quarters

Find the length of each side.

Open

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102%

Tools

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Applications and Problem Solving

17. Numbers The sum of 2 numbers is 46.
One number is 12 more than the other. What are the numbers?

19. Measurement The length of a rectangle is 5 m more than its width. Its perimeter is 90 m.
What are its dimensions?

Given the sum of 2 numbers is 46
One number is 12 more than the other

Find the #s

Let x = the smallest number
Then let $x + 12$ = the larger number

$x + x + 12 = 46$
the numbers are 17 and 29.
 $2x + 12 = 46$
 $2x = 34$
 $x = 17$

8.50 x 11.00 in

20. Numbers The sum of 3 consecutive whole numbers is 105. Find the numbers.

in a row
Given - sum of 3 con. numbers
is 105

Find - the numbers

Let x = the first number, Then let $x+1$ = the second number, and let $x+2$ = the third number

Solution - $x + x + 1 + x + 2 = 105$ ∴ The numbers are 34, 35 and 36
 $3x + 3 = 105$
 $3x = 102$
 $x = 34$

28. Coins Aretha has \$0.85 in nickels and dimes. She has 2 more nickels than dimes. How many nickels and dimes does she have?

29. Basketball court A basketball court is a rectangle with dimensions 26 m by 14 m. What is the length of a diagonal, to the nearest metre?

Homework p363 all homework
p366 - to #22