

Solving Word Problems - Number Problems

The sum of two consecutive even integers is 14. Find the two numbers.

A) Write an equation to represent this relation.  
 B) Use the equation to determine the numbers

A) Let  $x$  equal the first number

First number is  $x$ . The second number is 2 more than  $x$ , so my equation is:  $x + 2$

To solve this problem the equation is:  $x + x + 2 = 14$

B)  $x + x + 2 = 14$   
 $2x + 2 = 14$   
 $2x + 2 - 2 = 14 - 2$   
 $\frac{2x}{2} = \frac{12}{2}$   
 $x = 6$

Since  $x = 6$  then the second number must be  $x + 2$ .  
 Then  $6 + 2 = 8$   
 The two numbers are 6 and 8.

Check  $x + x + 2 = 14$   
 $6 + 6 + 2 = 14$   
 $14 = 14$  :!)

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The length of a rectangle is 3 cm more than its width,  $w$ .

a) The perimeter of the rectangle is 26 cm. What are the dimensions of the rectangle?

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Solving Word Problems - Number Problems and Measurement Problems

1) The sum of two consecutive even integers is 54. Find the two numbers.

2) Lauren is 3 years older than Megan and Alyssa is 3 years younger than Megan. The sum of their ages is 42. How old is each girl?

Let Megan =  $x$

3) At the movie theatre, Ben purchased a box of popcorn with 20 quarters and the rest in dimes. The popcorn cost \$3.35. How many quarters did Ben use?

$\$0.25x + \$0.10 = \$3.35$

4) Donna is three times as old as her daughter, Sophie. The sum of their ages is 52. How old are Donna and Sophie.

LET  $x =$  Sophie's age.

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Solving Word Problems - Measurement Problems

1) A rectangle has a width that is 33cm less than its length. The perimeter of the rectangle is 822cm. What is the length and width of the rectangle?

2) The length of a field is 4 times it's width. The perimeter is 25m. Determine the length and width of the field

3) A farmer is building a rectangular pen using 58 cm of fencing. How wide should the pen be if the length is 18cm?

4) The two equal sides of an isosceles triangle are twice as long as the third side. The perimeter of the triangle is 210cm. How long is each side?

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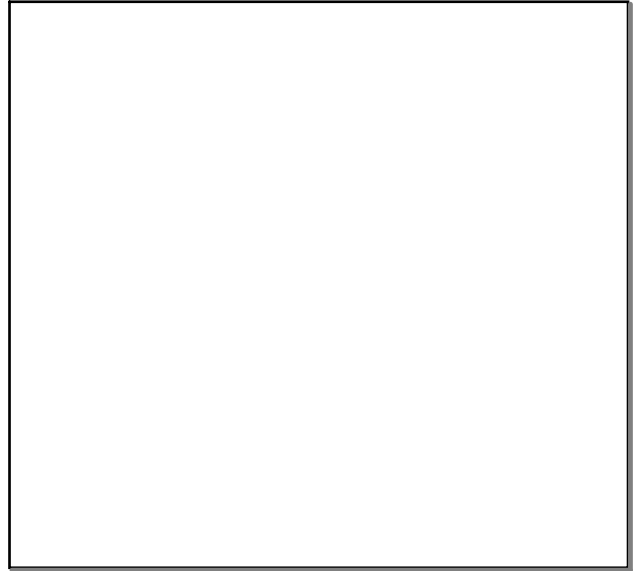
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**Word problems 2.notebook**

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**april 6th word problems**



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