

Maths Word Problems and Solutions

Problem 1 In one store in the afternoon sold twice more pears, than in the morning. During the whole day they sold 360 kg. pears. How many kilograms of pears are sold in the morning and how many in the afternoon?

Solution:

Lets take that the sold in the morning pears are x kg, then in the afternoon are sold $2x$ kg. Their sum $x + 2x = 3x$ kg is the whole quantity sold pears, 360 kg. So we get the following equation $3x = 360 \Leftrightarrow x = 360/3 \Leftrightarrow x = 120$

Therefore in the morning they sold 120 kg pears, and in the afternoon $2 \cdot 120 = 240$ kg.

Problem 2 Ivan gathered twice more chestnuts than Peter and Boris gathered 2kg. more than Peter. Together they gathered 26 kg. chestnuts. How many kilogrammes gathered each one of them?

Solution:

Lets take Peter's chestnuts as x kg., then Ivan gathered $2x$ kg. and Boris $(x + 2)$ kg . All gathered chestnuts are: $x + 2x + x + 2 = 4x + 2$ and by condition they are 26 kg. We get the equation: $4x + 2 = 26 \Leftrightarrow 4x = 24 \Leftrightarrow x = 6$

Therefore Peter gathered 6 kg., Ivan $2 \cdot 6 = 12$ kg, Boris $6 + 2 = 8$ kg chestnuts.

Problem 3

Kamen read $2/3$ of a book and calculated that the read part is with 90 pages more than the unread. How many pages is the whole book?

Solution:

Lets take the whole book as x pages. The part he read is $2/3$ from x , i.e. $2/3 \cdot x$ We will get the unread part when from the whole book we subtract the read part, i.e. $x - 2/3 \cdot x = 3/3x - 2/3x = 1/3x$ The read part $2/3x$ is with 90 pages more than the unread one, which is $1/3x$ Therefore $2/3x - 1/3x = 90 \Leftrightarrow 1/3x = 90 \Leftrightarrow x = 90 \cdot 3 = 270$ So the book is 270 pages.

Problem 4

One tract can be ploughed with 6 tractors for 4 days, if they plough 120hectares a day. Two of the tractors were moved to another tract. The rest 4 ploughed the same tract for 5 days. How many decare average a day ploughed the 4 tractors?

Solution:

If 6 tractors ploughed 120 hectares a day and finished the tract for 4 days, then the whole tract is: $120 \cdot 6 \cdot 4 = 2880$ hectares Lets take that every one of the four tractors for the 5 days ploughed x hectares. Therefore the finished work:

$5 \cdot 4 \cdot x = 20 \cdot x$ hectares and this is the whole tract – 2880 hectares

So we get $20x = 2880 \Leftrightarrow x = 2880/20 = 144$ decare a day ploughed every on of the four tractor-drivers.

Problem 5

One student thought of a number, multiplied it by 2. From the received product subtracted 138 and got 102 . Which is the number the student thought of?

Solution:

Lets take the thought number as x , when he multiplied it with 2 he got $(2x)$; from which he

Homework 10 Quadratic Word Problems Unit 8

Minjie Lin



Homework 10 Quadratic Word Problems Unit 8:

Unveiling the Magic of Words: A Report on "**Homework 10 Quadratic Word Problems Unit 8**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Homework 10 Quadratic Word Problems Unit 8**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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