Unit 9, Lesson 9

Create Word Problems

Let’s write our own word problems.

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Warm-up

Number Talk: Difference and Thousands

Find the value of each expression mentally.

- $5{,}000 - 403$

- $5{,}300 - 473$

- $25{,}300 - 493$

- $26{,}000 - 1{,}493$

Activity 1

What's the Question?

George Meegan walked 19,019 miles between 1977 and 1983. He finished at age 31. He wore out 12 pairs of hiking boots.

Jean Beliveau walked 46,900 miles between 2000 and 2011. He finished at age 56.

Here are the responses Kiran gave to answer some questions about the situation.

In each row, write a question that Kiran could answer, using the given information. In the last row, write a new question about the situation. Show your answer and explain your reasoning.

question	response and reasoning
1.	$1983 - 1977 = 6$ $12 \div 6 = 2$ 2 pairs of hiking boots
2.	$56 - 31 = 25$ 25 years
3.	$2011 - 2000 = 11$ 11 years $11 \times$ _____ $= 46{,}900$ $11 \times 4{,}000 = 44{,}000$ $11 \times 200 = 2{,}200$ $11 \times 70 = 770$ $44{,}000 + 2{,}200 + 770 = 46{,}970$ $4{,}000 + 200 + 70 = 4{,}270$ 4,270 miles
4.	

Activity 2

What's the Problem?

Elena, Noah, and Han each create a problem with an answer of 1,564.

- Elena uses multiplication.
- Noah uses multi-digit numbers and addition only.
- Han uses multiplication and subtraction.

Write a problem that each student could have written. Show that the answer to the question is 1,564.

- Elena's problem: _____

  _____

  Solution:

- Noah's problem: _____

  _____

  Solution:

- Han's problem: _____

  _____

  Solution: