Unit 2 Performance Task

PENCIL PUSHER

Mr. Brust buys a fresh pack of 20 pencils. He lets students borrow them during the day.

	# of pencils lent out	# of pencils returned
Monday	5	3
Tuesday	3	0
Wednesday	6	5
Thursday	4	1
Friday	8	4

PART A

Use the table to determine how many pencils Mr. Brust has left at the end of the week.
Show your calculations to justify!

PART B

Do you think that Mr. Brust has enough pencils left to make it another week? Explain your answer.

PART C

Mr. Brust also lends out pens. He starts the day with 5 pens and ends the day with 2 pens. During the day he finds random new pens on the floor and adds them to his collection. He also lends out pens that do not get returned. Write two possible equations that represent how many pens Mr. Brust found and how many pens did not get returned.

$$5 + \underline{\ \ \ } - \underline{\ \ \ } = 2$$

$$5 + \underline{\ \ \ } - \underline{\ \ \ } = 2$$

Pencil Pusher Scoring Rubric

Part	Solution		Points	Section Points
A	Mr. Brust will have 7 pencils left.		1 point for correct answer	3 points
	Mon: $20 - 5 + 3 = 18$ Tues: $18 - 3 + 0 = 15$ Wed: $15 - 6 + 5 = 14$ Thur: $14 - 4 + 1 = 11$ Fri: $11 - 8 + 4 = 7$ — or —	Total Loss is $-5 - 3 - 6 - 4 - 8 = -26$ Total Gain is $3 + 0 + 5 + 1 + 4 = 13$ So net change is $20 - 26 + 13 = 7$	2 points for work shown (1 point can be awarded for correct work but mistakes on computation)	
B	No, not enough pencils. Mr. Brust gave out 13 pencils the first week. He only has 7 pencils left so he does not have enough to make through another week at this rate.		1 point for valid argument	1 point
C	Answers may vary. Examples: $5 + 1 - 4 = 2$ $5 + 4 - 7 = 2$		1 point for each correct equation	2 points
			TOTAL POINTS	6 points