

Algebra/Data Analysis Toolkit: Indicator 1.2.5

Student Handout: Algebra/Data Analysis: Indicator 1.2.5

Goal 1.0 Functions and Algebra

Expectation 1.2 The student will model and interpret real-world situations using the language of mathematics and appropriate technology.

Indicator 1.2.5 The student will apply formulas and/or use matrices (arrays of numbers) to solve real-world problems.

Assessment Limits:

Formulas will be provided in the problem or on the reference sheet.

Formulas may express linear or non-linear relationships.

The students will be expected to solve for first degree variables only.

Matrices will represent data in tables.

Matrix addition, subtraction, and/or scalar multiplication may be necessary.

Inverse and determinants of matrices will not be required.

Public Release - Selected Response Item - Released in 2009

Algebra/Data Analysis Indicator 1.2.5

A store sells T-shirts. The matrices below show the number of T-shirts in the store on November 1 and December 1.

T-SHIRTS IN THE STORE									
Number of T-shirts on November 1 st				Number of T-shirts on December 1 st					
	S	M	L	XL		S	M	L	XL
White	100	150	170	200	White	40	110	150	140
Grey	150	160	220	240	Grey	100	120	130	150

If the store did not add any additional T-shirts between November 1 and December 1, what size T-shirt sold the least?

- A. S
- B. M
- C. L
- D. XL

Correct Answer

- B. M

Item

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