

Math Grade 6 E

Grade Level Standard(s):

KY.6.EE.2

Materials:

- Math 6 E Attainment Task Questions for Student Use

Response Code:

- Indicate the answer provided by the student.

Text Coding:

- “Quotation marks” indicate the script that the teacher should read to the student.
- *Italicized text* provides further direction for the test administrator.
- Words in parenthesis () are optional; they may replace or be read in addition to the word(s) immediately preceding.

a. $a - r - f$

$$a - r - f$$

b. $a + r + f$

$$a + r + f$$

c. $a \times r \times f$

$$a \times r \times f$$

Before beginning task administration, please ensure that all conditions specified in the administration protocol (starting on page 10 of the Administration Guide Overview and Attainment Task Administration) have been met. Inform the student that the task is about to start by saying, “We are about to start the task, and I am going to ask you some questions.”

All questions from this task are available for presentation to the student in the supplemental material Math 6 E Attainment Task Questions for Student Use.

“Andrea wants to go to the fair. She knows she needs to bring money to pay admission (cost to get in), to go on rides, and to buy food.”

Present the student with the student picture response options (on opposite page) and ask the following question:

1. “If $a = \text{cost of admission}$, $r = \text{cost of rides}$, and $f = \text{cost of food items}$; which expression represents the amount of money Andrea needs for the fair?”

Response Option	Response Rationale
a. $a - r - f$	<i>The student attempts to use variables to represent a real-world problem but misidentifies the operation needed as subtraction.</i>
b. $a + r + f$ (Correct)	<i>The student correctly uses variables to represent a real-world problem and identifies the operation needed as addition.</i>
c. $a \times r \times f$	<i>The student attempts to use variables to represent a real-world problem but misidentifies the operation needed as multiplication.</i>
Depth of Knowledge (DOK) 2	

Math 6 E Attainment Task Questions for Student Use

1. If $a = \text{cost of admission}$, $r = \text{cost of rides}$, and $f = \text{cost of food items}$; which expression represents the amount of money Andrea needs for the fair?

Kentucky Academic Standard: KY.6.EE.6 - Write, read and evaluate expressions in which letters stand for numbers.

- a. Write expressions that record operations with numbers and with letters standing for numbers. b. Identify parts of an expression using mathematical terms (sums, term, product, factor, quotient, coefficient); view one or more parts of an expression in a single entity. c. Evaluate expressions for specific values of their variables, including values that are non-negative rational numbers. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). **MP.1, MP.3, MP.4**

Alternate Assessment Target: *a. No further limitations b. Limit to term and coefficient c. Limit to squared and cubed exponents.*

Student Group	Number of Students	Percent Correct
All Students	467	46.47%
Gender		
Female	145	48.28%
Male	322	45.65%
Ethnicity		
African American	58	50.00%
American Indian or Alaska Native	<10	Not Reported
Asian	<10	Not Reported
Hispanic of Latino	<10	Not Reported
Native Hawaiian of Pacific Islander	<10	Not Reported
White (Non-Hispanic)	344	47.38%
Two or More Races	56	37.50%
English Learner	26	34.62%
Economically Disadvantaged	378	46.03%

*Number of Students that attempted the item