**A-71.** Solve this problem by writing an equation. Write your answer in a complete sentence.

The number of students attending the Fall play was 150 more than the number of adults attending. A total of 1220 people attended the play. How many students attended the play?

**A-72.** Sylvia simplified the expressions on the expression comparison mat shown below. Some of her work is shown. Are all of her moves “legal”? Explain.


**A-74.** Examine the shape made with algebra tiles at right.

* 1. Write an expression that represents the perimeter of the shape. Then evaluate your expression for *x* = 6 and *y* = 10 units.
	2. Write an expression that represents the area of the shape. What is the area if *x* = 6 and *y* = 10 units?

**A-75.** CALCULATOR CHECK
Use your scientific calculator to compute the value of each expression in the left-hand column below. Match each result to an answer in the right-hand column.

|  |  |
| --- | --- |
| a.     −3 + 16−(−5) | 1.     −16 |
| b.     (3 − 5)(6 + 2) | 2.     327 |
| c.     17(−23) + 2 | 3.     0.5 |
| d.     5 − (3 − 17)(−2 + 25) | 4.     18 |
| e.     (−4)(−2.25)(−10) | 5.     −90 |
| f.     −1.5−2.25−(−4.5) | 6.     0.75 |
| g.    4-5/6 | 7.     −389 |

**A-77.** WHICH IS GREATER?
For each expression comparison mat below, simplify and determine which side is greater.

1. 
2. 