

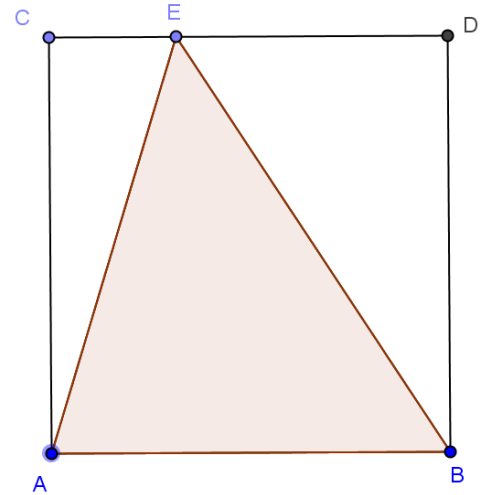
Name: _____

Date Turned in: _____

Reason for being Late: _____

Quarter 2 Problem Solving #3

1. Quadrilateral CDBA is a rectangle. Determine the ratio of $\triangle AED$ to the area of rectangle CDBA, and state why the ratio is invariant. (It may be helpful to use Geogebra to construct this picture. If you use Geogebra, be sure to print off a copy of your work. If you use Geogebra to help you, you must still provide a valid mathematical argument as to why you received the answer.)



2. The symbol

a	b
c	d

 equals $ad - bc$. If

$x-1$	2
3	-5

 = 9, then

determine the value of x.

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3. The integers greater than 1 are arranged in columns A, B, C, D, and E as shown below. In which column will 2008 be found?

A	B	C	D	E
		2	3	4
7	6	5		
		8	9	10
13	12	11		
		14	15	16
19	18	17		

4. Farmer Bob was on his way to town to buy eight bags of chicken feed, each of which cost \$2 per bag. His wife had given him 100 silver coins that consisted of dimes, half dollars, and silver dollars to pay for the feed. If he had the exact amount of money necessary to make his purchase, how many dimes had his wife given him?