Name: Teacher Date: _____

Practice Questions Test 1

1) Simplify: $4b - 3b + 2b + 6b - 5b$

$4b$

2) In the expression $15c^3$

a. 15 is the coefficient

b. c is the variable

c. 3 is the exponent

3) What would the expression be when the brackets are removed from

$-1(6y - 5) - 1(10y + 15)$

invisible 1

$-6y + 5 - 10y - 15$

$-16y - 10$

4) True or false?

a. $2c + 3d = 6cd$ False

b. There are four terms in the expression $5b + 33c + 43d - 5$ True

5) Simplify $(25b + 10) - 1(5b - 5)$

$25b + 10 - 5b + 5$

$20b + 15$

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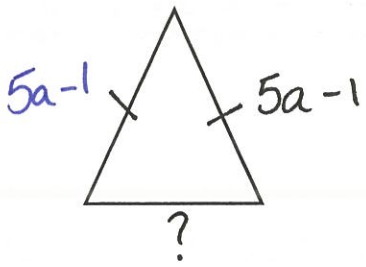
6) Simplify to find the missing side:

a. What is the side given that the **perimeter = 20a + 6**



$P = s_1 + s_2 + s_3$

$20a + 6 = 2(5a - 1) + ?$

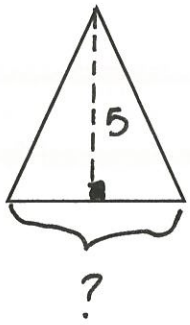
$20a + 6 = 10a - 2 + ?$

$(20a + 6) - (10a - 2) = ?$

$20a + 6 - 10a + 2$

$\boxed{10a + 8}$

b. What is the side given that the **area=20y + 30**



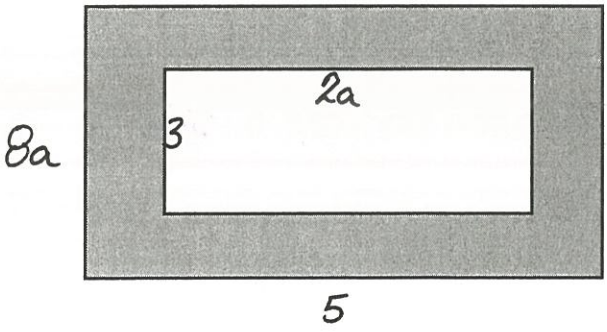
$A = \frac{bh}{2}$

$2(20y + 30) = \left(\frac{b(5)}{2}\right)2$

$\frac{40y + 60}{5} = \frac{5b}{5}$

$\boxed{8y + 12}$

7) Find the shaded area



$A_B = 8a(5) = 40a$

$A_S = 3(2a) = 6a$

$40a - 6a = \boxed{34a}$

8) Erica makes $(10a + 15) per hour babysitting. How much would she make if she worked 2 hours? Simplify your answer.

$2(10a + 15)$

$\boxed{20a + 30}$