

Laws of Exponents Homework!

Simplify each and leave answers with exponents:

1.  $2x^3 \cdot 4x^6 =$

2.  $(w^3)(2w^2)(3w^4) =$

3.  $5^3 \cdot 5^5 =$

4.  $(4x^7)(2x^6) =$

5.  $b^3 \cdot b^7$

6.  $\frac{n^3(n^5)}{n^2}$

7.  $\frac{s^7}{s \cdot s^3}$

8.  $\frac{(-2)^6}{(-2)^3}$

9.  $\frac{15n^9}{5n^6}$

10.  $\frac{36k^3t^5}{12k^6t^2}$

Evaluate each if  $m = 5$  and  $h = 4$ :

11.  $m^0$

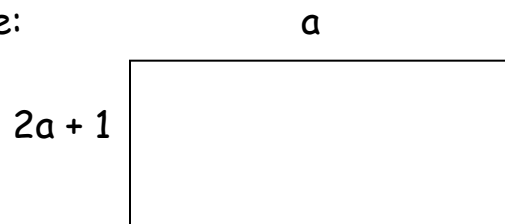
12.  $2h^0$

Add or Subtract:

13.  $(-3a^2 - 4) - (7a^2 - 3a + 1)$

14.  $(4b^2 - b + 1) + (-7b^2 - 3b)$

15. Find the area of the rectangle:



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1.  $8x^9$   
2.  $6w^9$   
3.  $5^8$   
4.  $8x^{13}$   
5.  $b^{10}$   
6.  $n^6$

7.  $s^3$   
8.  $(-2)^3$   
9.  $3n^3$   
10.  $\frac{3r^2}{k^3}$   
11. 1

12. 2  
13.  $-10a^2 + 3a - 5$   
14.  $-3b^2 - 4b + 1$   
15.  $2a^2 + a$