

1.8a EXPONENTS/ORDER OF OPERATIONS INTRODUCTION

$+ \bullet + =$

$+ \div + =$

Like Signs: Answer is _____

$- \bullet - =$

$- \div - =$

$+ \bullet - =$

$+ \div - =$

Unlike Signs: Answer is _____

$- \bullet + =$

$- \div + =$

EXPONENT NOTATION – In the expression x^2 , x is the base and 2 is the exponent or power. If a base is negative it must have ().

1. $5^2 = 5 \bullet 5 = 25$

2. $(-5)^2 = (-5)(-5) = 25$

3. $-5^2 = -5 \bullet 5 = -25$

4. $7^2 =$

5. $(-7)^2 = (-7)(-7) =$

6. $-7^2 = -7 \bullet 7 =$

7. $8^2 =$

8. $(-8)^2 =$

9. $-8^2 =$

10. $(-4)^3 = (-4)(-4)(-4) =$

11. $-4^3 =$

12. $(-1)^2 =$

13. $(-1)^5 =$

14. $(-1)^8 =$

15. $(-1)^{21} =$

ADDITION SIGN RULES

Like Signs: Answer is _____

Unlike Signs: Answer is _____

SUBTRACTION SIGN RULES

Change to _____ the _____, then use _____ rules.

ORDER OF OPERATIONS: Please Excuse My Dear Aunt Sally

16. $3^2 - 4^2$

17. $-5^2 + (-3)^2$

18. $6 - 2(5-3)$

19. $3(-4) + 4(2-5)^2$

20. $-5(-3) - 4(-2)$

21. $6(-1) - 3(-4)$

22. $24 \div 6 - 5(4)$

23. $(3-6)(2-7)$

24. $18 \div (-3) \cdot 2$

25. $[3(4-7)]^2$

26. $|2(-4)| + 5(-2)$

27. $\frac{(-2)^3 + 4}{12 - 2 \cdot 3 - 2}$