

Key

ORDER OF OPERATIONS

Order of Operations:

which calculation comes first in an expression. PEMDAS

Absolute Value:

the distance a number is from 0

Absolute Value Examples:

1. $|-13| = 13$

5. $|-12| + |15| = 27$

9. $|15 - 23| = 8$

2. $|21| = 21$

6. $|21 - 17| = 4$

10. $|24| - |-15| = 9$

3. $|-3| + |-5| = 8$

7. $|-11| - |-5| = 6$

11. $|28| - |-26| = 2$

4. $|9| + |-8| = 17$

8. $|4| - |-4| = 0$

12. $|-3| + |19| = 22$

Order of Operations Examples:

13. $135 \div [5(7-4)^2]$

$135 \div 5(3^2)$

$135 \div 45$

3

14. $\frac{2 \cdot 4^2 - 8 \div 2}{(5+2) \cdot 2}$

$\frac{2 \cdot 8 - 8 \div 2}{14} = \frac{16 - 4}{14} = \frac{12}{14} = \frac{6}{7}$

15. $(8-5)^3 - |5^2 - 4^3| \div 3$

$3^3 - |-39| \div 3$

$27 - 39 \div 3$

$27 - 13$

14

16. $\frac{12[30 - (9 + 4^2)]}{|10| - |-6|}$

$\frac{12(30 - 25)}{4} = \frac{12(5)}{4} = \frac{60}{4} = 15$

