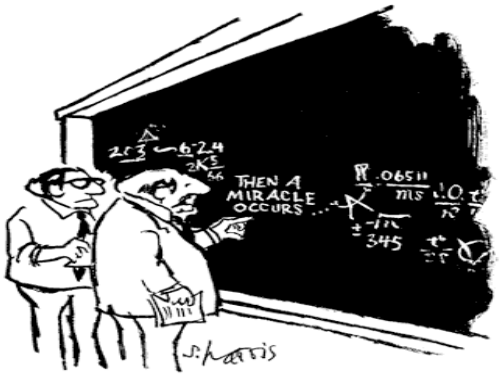
Test Prep Mr. Paquette
Advanced Math

Topics:

1. Integers
2. Absolute value
3. Order of Operations
4. Evaluating Algebraic Expressions



"I think you should be more explicit here in step two."

Evaluate:

1) 7 – 9 2) -6 – (-11) 3) -8 + 12 4) 20 – (-8)

5) -11 – (-9) 6) 7 – (-7) 7) -12 – 12 8) -3 + -3

9) (-9)(4) 10) 16 ÷ -2 11) $(-6)^2$ 12) -2^4

13) $(-1)^{79}$ 14) 5 – (-6) 15) $|-5|$ 16) $-|6|$

17) $|-6 - 8|$ 18) 9^0 19) $(-2)^3$ 20) (-4)(-5)(-3)

21) What is the opposite of 12? 22) What is the opposite of -3?

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Always, Sometimes, or Never?

23) A counting number is a whole number_____
24) An integer is a whole number_____
25) $n^8 < 0$ _____
26) A whole number is an integer_____
For #27 – 30 Let p represent a positive integer and n represent a negative integer.

27) $n^2 > n$ _____28) $|n| < |p|$ _____29) $-n < 0$ _____

30) $n + p < p$_____

Use the order of operations to simplify each expression: (Show your work!)

(31) $-5[8 \div 2^2(-3)]$

(32) $-15(-2) \div 3(-2) + (-3)$

(33) $-25 - [-7 - (4^2 + 6)]$

(34) $-2[-3^2 + 2(5 - 2^3)]$

(35) $-3^3(-2)^2 - [5(18 - 2(-3)^2)]$

(36) $3[3(-2)(-5 - 2)] - 3^3$

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Evaluate each expression for $a = -4$, $b = -5$, $x = -2$, $y = -3$

(37) $-4y - b^0$ (38) $(4b)^2$ (39) $-b^2$ (40) $2b^2 + 5x$

(41) $8x + 2y - (-x)$ (42) $4x - (-y)^2 + (-3)$ (43) $4x^3 - 2y^2 + (xy)^2$

Answers:
1. -2
2. 5
3. 4
4. 28
5. -2
6. 14
7. -24
8. -6
9. -36
10. -8
11. 36
12. -16
13. -1
14. 11
15. 5
16. -6
17. 14
18. 1
19. -8
20. -60
21. -12
22. 3
23. A
24. S
25. N
26. A
27. A
28. S
29. N
30. A
31. 30
32. -23
33. 4
34. 30
35. -108
36. 99
37. 11
38. 400
39. -25
40. 40
41. -24
42. -20
43. -14