

Pre-Algebra Basics

Name: _____ Class/Period: _____ Date: _____

For numbers I, II, and III, fill in the blanks with either *add* or *subtract*.

Adding Rules

I. To add integers with the **same** sign, _____ their absolute values. The answer has the same sign of the numbers being added.

II. To add integers with **different** signs, _____ their absolute values. The answer has the sign of the number with the greater absolute value.

Subtracting Rule

III. To subtract a number, _____ its opposite. Change the minus sign to a plus and add the opposite of the number being subtracted.

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For numbers I, II, and III, fill in the blanks with either *positive* or *negative*.

Multiplying and Dividing Rules

IV. When multiplying or dividing two numbers with the same sign, the answer will always be _____.

V. When multiplying or dividing two numbers with different signs, the answer will always be _____.

Add.

1. $5 + (-12)$ _____ 2. $20 + (-7)$ _____ 3. $17 + (-13)$ _____

4. $-12 + 16$ _____

5. $6 + (-14)$ _____

6. $-2 + (-3)$ _____

7. $-13 + 11$ _____

8. $-17 + (-10)$ _____

9. $-20 + (-15)$ _____

10. $-6 + (-5)$ _____

11. $-6 + 18$ _____

12. $-4 + 7$ _____

13. $-16 + (-20)$ _____

Subtract. Change each subtraction to an addition problem first!!

14. $9 - 10$ _____

15. $3 - 13$ _____

16. $7 - 10$ _____

17. $3 - 14$ _____

18. $9 - 14$ _____

19. $-12 - 4$ _____

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20. $-5 - (-14)$ _____

21. $-5 - (-8)$ _____

22. $-20 - 8$ _____

23. $-18 - (-1)$ _____

Multiply:

24. $-5 \cdot (-4)$ _____

25. $-5 \cdot 4$ _____

26. $6 \cdot (-7)$ _____

27. $-5 \cdot (-5)$ _____

28. $(-3)(5)(20)$ _____

29. $(4)(-2)(-5)$ _____

30. $(-8)(1)(10)$ _____

31. $(-5)(-2)(5)$ _____

Divide:

32. $10 \div (-5)$ _____

33. $-4 \div (-1)$ _____

34. $-20 \div (-5)$ _____

35. $-56 \div 7$ _____

36. $-24 \div 8$ _____

37. $18 \div (-3)$ _____

38. $6 \div (-1)$ _____

39. $-30 \div (-6)$ _____

40. $18 \div (-2)$ _____

Add, Subtract, Multiply, or Divide.

41. $15 - (-3) + -4 - 5$

42. $13 - 21 - 5 - 7 - (-3)$

43. $5 + 18 \div (-2)$

44. $(4 + -12) \div 2 \cdot 2$