

Operations with Integers and Decimals

Score _____ Per _____

1. *Positive + Positive* = _____
2. *Positive + Negative* = *Positive* if... _____
3. *Positive + Negative* = *Negative* if... _____
4. *Negative + Negative* = _____
5. *Positive × Positive* = _____ *Positive ÷ Positive* = _____
6. *Positive × Negative* = _____ *Positive ÷ Negative* = _____
7. *Negative × Negative* = _____ *Negative ÷ Negative* = _____

Do the following operations **without a calculator**. Then check your answer **with your calculator**. Circle yes or no as to whether you got the question right *without* using a calculator.

8. $-12 + 7 =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
9. $-24 \div -12 =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
10. $2 - (-2) =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
11. $(-6) \times (-3) =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
12. $11 + (-4) =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
13. $8 - 17 =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
14. $66 \div 6 =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
15. $-10 + (-7) =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
16. $-9 \times 7 =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
17. $12 \times (-3) =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
18. $5 + (-9) =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
19. $-20 \div 2 =$ _____ calculator answer: _____ correct *without* calculator? **yes no**
20. $-1 - 10 =$ _____ calculator answer: _____ correct *without* calculator? **yes no**

21. Why is $3 - (-2) = 5$? In other words, why is subtracting a negative the same as adding a positive?

22. What is $(-2) \times (-2)$? _____ What is $(-2) + (-2)$? _____ What is different about your answers? _____

23. Benson owes his aunt \$20. He borrows \$8 more from his aunt to go to a movie. Does Benson have money or owe money? _____ How much does he have or owe? _____.

24. The temperature changed at a rate of $-2^{\circ}F$ per hour. How long did it take for the change in temperature to be $-14^{\circ}F$? _____ How did you solve this problem? _____

25. Give an example of two integers whose sum is -12 : _____ and _____

26. Give an example of two integers whose product is -12 : _____ and _____

26:27.

Compute the following. Show ALL work. Check your answer.

27:28. $-9.7 + 5.4 =$ _____

28:29. $-17.9 + -19.4 =$ _____

29:30. $5.5 \times 4 =$ _____

30:31. $(-45) + 9 =$ _____

31:32. $65 \div 5 =$ _____

32:33. $-12 \times -8 =$ _____

33:34. $10.5 \div -1.5 =$ _____

34:35. $0.96 - 8.5 =$ _____

35:36. $13.7 + 3.2 =$ _____

36:37. $(-12) + (-11) =$ _____

37:38. $-38 - (-5) =$ _____

38:39. $35 \div -5 =$ _____

39:40. $1.7 \times -3.1 =$ _____

40:41. $48.9 - -31.1 =$ _____

