Math 8 Name_____

Multiplying/Dividing Integers and Decimals

Score_____Per____

1. $Positive \times Positive =$ _____ $Positive \div Positive =$ _____
2. $Positive \times Negative =$ _____ $Positive \div Negative =$ _____
3. $Negative \times Negative =$ _____ $Negative \div Negative =$ _____

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.

4. $(-6) \times (-3) =$ _____ calculator answer: _____ correct *without* calculator? **yes** **no**
5. $5 \times 5 =$ _____ calculator answer: _____ correct *without* calculator? **yes** **no**
6. $-9 \times 7 =$ _____ calculator answer: _____ correct *without* calculator? **yes** **no**
7. $12 \times (-3) =$ _____ calculator answer: _____ correct *without* calculator? **yes** **no**
8. $-24 \div -12 =$ _____ calculator answer: _____ correct *without* calculator? **yes** **no**
9. $(-10) \div (-5) =$ _____ calculator answer: _____ correct *without* calculator? **yes** **no**
10. $-20 \div 2 =$ _____ calculator answer: _____ correct *without* calculator? **yes** **no**
11. $66 \div 6 =$ _____ calculator answer: _____ correct *without* calculator? **yes** **no**

12. Did you make any errors when you did the problems *without* a calculator?_____If yes, what mistakes did you make?_____
_____

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

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

14. $-3 \times 4 =$ _____

15. $35 \div -5 =$ _____

16. $1.7 \times -3.1 =$ _____

17. $10.5 \div -1.5 =$ _____

18. $-12 \times -8 =$ _____

19. $-8 \div -2 =$ _____

20. $5.5 \times 4 =$ _____

21. $65 \div 13 =$ _____

22. The height of the water in a tank *decreases* 3 inches each week due to evaporation. What is the change in the height of the water over a five-week period due to evaporation?_____

23. The temperature changed at a rate of $-2°F$ per hour. How long did it take for the change in temperature to be $-14°F$?_____How did you solve this problem?_____
_____