Name: _____

Date: _____

Solve the problems below, following the rules for dividing integers. Write your answers on your own lined paper, following the guidelines for labeling your Math assignments. (Call this one "Assignment #4, 1-12, all; and 16-21, all.")

EXTRA CREDIT: Try to figure out #13, 14, 15. For each table, you do the same thing to the number "IN" to get the number in the "OUT" column. Can you figure out what is being done to each number in the "IN" column?

Find each quotient.

1. $^+54 \div ^-6$ 2. $^-25 \div ^+5$ 3. $^-80 \div ^+10$ 4. $0 \div ^+9$

5. $^-10 \div 0$ 6. $^+11 \div ^-1$ 7. $^-20 \div ^+1$ 8. $^-4 \div ^-4$

9. $\dfrac{^-36}{^-6}$ 10. $\dfrac{^-1}{^+1}$ 11. $\dfrac{50}{^-10}$ 12. $\dfrac{^-80}{5}$

Practice

Divide to complete each chart. Then write the rule.

13.

IN	OUT
$^+8$	$^-4$
$^+10$	$^-5$
$^+12$	$^-6$
$^+14$	?
$^+16$	?
?	$^-9$

Rule: IN $\div n =$ OUT

14.

IN	OUT
$^-30$	$^+5$
$^-24$	$^+4$
$^-18$	$^+3$
$^-12$	?
$^-6$	?
?	0

Rule: IN $\div n =$ OUT

15.

IN	OUT
$^-24$	$^-3$
$^-16$	$^-2$
$^-8$	?
0	?
?	$^+1$
$^+16$	$^+2$

Rule: IN $\div n =$ OUT

Compare. Write <, =, or >.

16. $^-5 \div ^-1$ _?_ $^-12 \div 4$ 17. $^-36 \div 6$ _?_ $20 \div ^-4$ 18. $^-18 \div ^-2$ _?_ $30 \div ^-6$

19. $^-12 \times 3$ _?_ $24 \div ^-3$ 20. $^-25 \div ^-5$ _?_ $^-4 \times 5$ 21. $^-48 \div ^-4$ _?_ 3×4