1. a) $1+2+3+4+5+6+7=$
b) $(1+2+3)+(4+5+6+7)=$
c) $(1+2+3+4+5)+(6+7)=$
d) $(1+2)+3+(4+5+6+7)=$
e) $7+6+5+4+3+2+1=$
f) $(7+6+5+4)+3+2+1=$
g) $4+1+2+7+3+5+6=$
h) Did you get the same answer for \#1a-g?
i) What mathematical property says you can add numbers in any order?
2. a) $2 \times 3=$
b) $-2 \times 3=$
c) $2 \times-3=$
d) $-2 \times-3=$
e) What is the sign of the result when you multiply: positive $\times$ positive $=$ negative $\times$ negative $=$ negative $\times$ positive $=$ positive $\times$ negative $=$
3. Solve. Label as "identity" or "negation."
a) $951,212 \times 1=$
b) $951,212 \times-1=$
c) $-951,212 \times 1=$
d) $-951,212 \times-1=$
4. a) $9 \div 3=$
b) $-9 \div 3=$
c) $9 \div-3=$
d) $-9 \div-3=$
e) Are the sign rules for division the same or different than multiplication (see \#2e)?
5. Solve. Label as "identity" or "negation."
a) $1,234,567 \div 1=$
b) $1,234,567 \div-1=$
c) $-1,234,567 \div 1=$
d) $-1,234,567 \div-1=$
6. $(1+2) \div 3+4 \times 5-(6+7)=$
7. a) $-1+-2+-3+-4+-5+-6+-7=$
b) $-1-2-3-4-5-6-7=$
c) $-1+-1 \times 2+-1 \times 3+-1 \times 4+-1 \times 5+-1 \times 6+-1 \times 7=$
d) $-1+(-1 \times 2)+(-1 \times 3)+(-1 \times 4)+(-1 \times 5)+(-1 \times 6)+(-1 \times 7)=$
e) $-1+(2 \div-1)+(3 \div-1)+(4 \div-1)+(5 \div-1)+(6 \div-1)+(7 \div-1)=$
8. a) $-2 \times-2=$
b) $-2 \times-2 \times-2=$
c) $-2 \times-2 \times-2 \times-2=$
d) $-2 \times-2 \times-2 \times-2 \times-2=$
e) What is the sign for multiplying an odd number of negative numbers?
