


























Name \_\_\_\_\_


Date \_\_\_\_\_

## Binary Operations - Independent Practice Worksheet

Complete all the problems.

1. Is this operation commutative?
2. Name the identity element, or explain why none exists.
3. For each element having an inverse, name the element and its inverse.

	M	O	S	T
M	T	S	O	M
O	S	M	T	O
S	O	T	M	S
T	M	O	S	T


























4. Is this operation commutative?
5. Name the identity element, or explain why none exists.
6. For each element having an inverse, name the element and its inverse.
7. True or False

$$M \text{ (book icon)} (O \text{ (book icon)} S) = S \text{ (book icon)} (O \text{ (book icon)} S)$$



Name \_\_\_\_\_

Date \_\_\_\_\_

8. Is this operation commutative?
9. Name the identity element, or explain why none exists.
10. For each element having an inverse, name the element and its inverse.

