| Name: | | | Date: | | | | Period: | |
|-------|--|---|-------|--|-----|--|---------|---|
| 1. | Under which operation is the set of positive rational numbers <i>NOT</i> closed? | | | | | | | |
| | (A) | addition | (B) | subtraction | (C) | multiplication | (D) | division |
| 2. | Under which operation is the set of all odd integers closed? | | | | | | | |
| | (A) | division | (B) | multiplication | (C) | addition | (D) | subtraction |
| 3. | Under which operation is the set {1, 2, 4, 8, 16,} closed? | | | | | | | |
| | (A) | addition | (B) | subtraction | (C) | multiplication | (D) | division |
| 4. | Under which operation are the even integers not closed? | | | | | | | |
| | (A) | addition | (B) | subtraction | (C) | multiplication | (D) | division |
| 5. | Which set is not closed under addition? | | | | | | | |
| | (A) | {1, 2, 3, 4,} | (B) | {2, 4, 6, 8,} | (C) | {3, 6, 9, 12,} | (D) | {1, 3, 5, 7,} |
| 6. | Which set is closed under the operation of subtraction? | | | | | | | |
| | (A) | Odd numbers | (B) | Counting numbers | (C) | Integers | (D) | Prime numbers |
| 7. | Which set is not closed under addition? | | | | | | | |
| | (A) | Natural numbers | (B) | Even integers | (C) | Whole numbers | (D) | Odd integers |
| 8. | Which set of numbers is not closed with respect to the given operation? | | | | | | | |
| | (A) | Integers with respect to multiplication | (B) | Even integers with respect to addition | (C) | Integers with respect to subtraction | (D) | Odd integers with respect to addition |
| 9. | The set {0, 1, -1} is closed under the operation of | | | | | | | |
| | (A) | addition | (B) | multiplication | (C) | subtraction | (D) | division |