Closure Worksheet

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Tell whether or not the given number sets are closed with respect to the indicated operation. If the set is NOT closed, give a counterexample.

- 1. Even Whole Numbers {0, 2, 4, 6, 8 ...}, +
- 2. Odd Integers {...-5, -3, -1, 1, 3, 5...}, -
- 3. Odd Integers {...-5, -3, -1, 1, 3, 5...}, +
- 4. Odd Integers {...-5, -3, -1, 1, 3, 5...}, ×
- 5. Negative Odd Integers {...-7, -5, -3, -1}, +
- 6. Natural Numbers {1, 2, 3, 4...}, -
- 7. Natural Numbers {1, 2, 3, 4...}, +
- 8. Rational Numbers, +
- 9. Rational Numbers, -
- 10. Rational Numbers, ÷
- 11. Rational Numbers, ×
- 12. {1, 2, 4, 8, 16...}, ×
- 13. {1, 2, 3, 4}, ×
- 4. {0, 5, 10, 15, 25...}+
- 15. {-1, 0, 1},×