

Answers and Solutions:

Name: _____

Select one or more correct answers for each of the following. Why you selected one answer is thought. Some have more than one correct answer.

Describe the group law, if applicable.

- 1. \mathbb{Z} is a group under addition. Yes
- 2. \mathbb{Z} is a group under multiplication. No
- 3. \mathbb{Z} is a group under addition and multiplication. No
- 4. \mathbb{Z} is a group under addition. Yes
- 5. \mathbb{Z} is a group under multiplication. No
- 6. \mathbb{Z} is a group under addition and multiplication. No
- 7. \mathbb{Z} is a group under addition and multiplication. No
- 8. \mathbb{Z} is a group under addition. Yes
- 9. \mathbb{Z} is a group under multiplication. No
- 10. \mathbb{Z} is a group under addition and multiplication. No
- 11. \mathbb{Z} is a group under addition and multiplication. No
- 12. \mathbb{Z} is a group under addition and multiplication. No
- 13. \mathbb{Z} is a group under addition and multiplication. No