# Boolean algebra – properties and identities exercise

Notation:

+ means OR

. means AND

means NOT

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|  | **Question** | **Meaning** | **Answer** |
| 1 | 0 | Not False | 1 |
| 2 | 1 | Not True | 0 |
| 3 | 1 + 1 | True OR True | 1 |
| 4 | 1 + 0 | True OR False | 1 |
| 5 | 0 + 1 | False or True | 1 |
| 6 | 0 + 0 | False OR False | 0 |
| 7 | 1 . 1 | True AND True | 1 |
| 8 | 1 . 0 | True AND False | 0 |
| 9 | 0 . 1 | False AND True | 0 |
| 10 | 0 . 0 | False AND False | 0 |
| 11 | A | NOT NOT A | A |
| 12 | A . A | A AND Not A | 0 |
| 13 | A + A | A OR Not A | 1 |
| 14 | A + 0 | A OR False | A |
| 15 | A + A | A OR A | A |
| 16 | A + 1 | A OR True | 1 |
| 17 | A . 1 | A AND True | A |
| 18 | A . A | A AND A | 0 |
| 19 | A . 0 | A AND False | 0 |
| 20 | A + (A . B) | A OR (A AND B) | A |
| 21 | A . (A + B) | A AND (A AND B) | A |