



MATHS

BOOKS - JBD PUBLICATION

MATHEMATICAL REASONING



1. Write the negation of the following statements.

Chennai is the capital of Tamil Nadu.



3. Write the negation of the following statements.

All triangles are equilateral triangles.





4. Write the negation of the following

statements

The number 2 is greater than 7

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5. Write the negation of the following

statements

Every natural number is an integer.

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6. Find the component statements of the following compound statements and check whether they are true or false.

Number 3 is prime or it is odd.



7. Find the component of the following

compound statements

All integers are positive or negative



8. Find the component statements of the following compound statements and check whether they are true or false.

100 is divisible by 3, 11 or 5.



9. Write the component statements of the following compound statements and check whether the compound statement is true or

false.

50 is a multiple of both 2 and 5.



10. Write the component statements of the following compound statements and check whether the compound statement is true or false.

 $\sqrt{2}$ is a rational number or an irrational number.

11. Write the component statements of the following compound statements and check whether the compound statement is true or false.

Mumbai is the capital of Gujarat or Maharashtra.

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12. Check whether the given statement is true

or false

Rectangle is a regular quadrilateral.



13. Identify the quantifier in the following statements and write the negation of the statements

For every real number x, x is less than x+1



14. Identify the quantifier in the following statements and write the negation of the statements

There exists a capital for every state in india.

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15. Write the negation of the following statements and check whether the resulting statements are true,

There does not exist a quadrilateral which has

all its sides equal.



16. Write the negation of the following statements and check whether the resulting statements are true,

The sum of 3 and 4 is 9.

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17. Write the negation of the following statements and check whether the resulting statements are true,

Australia is a continent.



18. Write the negation of the following statements and check whether the resulting statements are true,

Every natural number is greater than 0.



