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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. True or False?  ​  Every integer is a rational number.  ​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | a | |

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| 2. Classify the number as to type. (For example,  is rational and real, where as   is irrational and real.)  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | rational | |  | b. | natural | |  | c. | irrational | |  | d. | whole | |  | e. | integer |  |  |  | | --- | --- | | *ANSWER:* | c | |

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| 3. State the real number property that justifies the statement.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Distributive law for multiplication with respect to addition | |  | b. | Commutative law of addition | |  | c. | Inverse law of addition | |  | d. | Associative law of addition | |  | e. | Identity law of addition |  |  |  | | --- | --- | | *ANSWER:* | b | |

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| 4. State the real number property that justifies the statement.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Inverse law of addition | |  | b. | Associative law of addition | |  | c. | Distributive law for multiplication with respect to addition | |  | d. | Identity law of addition | |  | e. | Commutative law of addition |  |  |  | | --- | --- | | *ANSWER:* | b | |

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| 5. State the real number property that justifies the statement.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Associative law of multiplication | |  | b. | Identity law of multiplication | |  | c. | Commutative law of multiplication | |  | d. | Inverse law of multiplication | |  | e. | Associative law of addition |  |  |  | | --- | --- | | *ANSWER:* | c | |

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| 6. State the real number property that justifies the statement.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Associative law of addition | |  | b. | Identity law of multiplication | |  | c. | Commutative law of multiplication | |  | d. | Associative law of multiplication | |  | e. | Distributive law for multiplication with respect to addition |  |  |  | | --- | --- | | *ANSWER:* | d | |

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| 7. State the real number property that justifies the statement.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Commutative law of multiplication | |  | b. | Distributive law for multiplication with respect to addition | |  | c. | Associative law of multiplication | |  | d. | Associative law of addition | |  | e. | Identity law of multiplication |  |  |  | | --- | --- | | *ANSWER:* | b | |

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| 8. State the real number property that justifies the statement.  ​  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Distributive law for multiplication under addition | |  | b. | Associative law of multiplication | |  | c. | Commutative law of multiplication | |  | d. | Associative law of addition | |  | e. | Commutative law of addition |  |  |  | | --- | --- | | *ANSWER:* | d | |

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| 9. State the real number property that justifies the statement.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Commutative law of multiplication | |  | b. | Property 2 of negatives | |  | c. | Property 3 of negatives | |  | d. | Property 1 of negatives | |  | e. | Associative law of multiplication |  |  |  | | --- | --- | | *ANSWER:* | d | |

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| 10. State the real number property that justifies the statement.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Property 2 of negatives | |  | b. | Commutative law of multiplication | |  | c. | Associative law of multiplication | |  | d. | Property 3 of negatives | |  | e. | Property 1 of negatives |  |  |  | | --- | --- | | *ANSWER:* | d | |

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| 11. State the real number property that justifies the statement.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Property 1 of zero properties | |  | b. | Associative law of multiplication | |  | c. | Property 2 of negatives | |  | d. | Commutative law of multiplication | |  | e. | Property 2 of zero properties |  |  |  | | --- | --- | | *ANSWER:* | a | |

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| 12. State the real number property that justifies the statement.  ​  If , then  or .  ​   |  |  |  | | --- | --- | --- | |  | a. | Property 2 of negatives | |  | b. | Commutative law of multiplication | |  | c. | Associative law of multiplication | |  | d. | Property 1 of zero properties | |  | e. | Property 2 of zero properties |  |  |  | | --- | --- | | *ANSWER:* | e | |

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| 13. State the real number property that justifies the statement.  ​  If , then  or .  ​   |  |  |  | | --- | --- | --- | |  | a. | Property 5 of quotients and distributive law | |  | b. | Property 3 of quotients | |  | c. | Property 1 of zero properties | |  | d. | Property 2 of zero properties | |  | e. | Properties 1 and 4 of quotients |  |  |  | | --- | --- | | *ANSWER:* | d | |

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| 14. State the real number property that justifies the statement.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Property 4 of quotients | |  | b. | Property 1 of quotients | |  | c. | Property 3 of quotient | |  | d. | Property 5 of quotients | |  | e. | Property 2 of quotients |  |  |  | | --- | --- | | *ANSWER:* | e | |

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| 15. State the real number property that justifies the statement.  ​    ​   |  |  |  | | --- | --- | --- | |  | a. | Properties 1 and 4 of quotients | |  | b. | Property 2 of quotients | |  | c. | Property 1 of quotients | |  | d. | Property 3 of quotients | |  | e. | Property 5 of quotients and distributive law |  |  |  | | --- | --- | | *ANSWER:* | b | |

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| 16. State the real number property that justifies the statement.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Property 3 of quotients and distributive law | |  | b. | Property 5 of quotients and distributive law | |  | c. | Property 4 of quotients and distributive law | |  | d. | Property 6 of quotients and distributive law | |  | e. | Property 7 of quotients and distributive law |  |  |  | | --- | --- | | *ANSWER:* | d | |

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| 17. State the real number property that justifies the statement.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Property 5 of quotients and distributive law | |  | b. | Property 4 of quotients and distributive law | |  | c. | Property 7 of quotients and distributive law | |  | d. | Property 6 of quotients and distributive law | |  | e. | Property 3 of quotients and distributive law |  |  |  | | --- | --- | | *ANSWER:* | c | |

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| 18. True or False?  ​  , , .  ​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | a | |

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| 19. True or False?  ​  , ,  , .  ​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | a | |

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| 20. Classify the number as to type.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | natural | |  | b. | integer | |  | c. | rational | |  | d. | real | |  | e. | irrational |  |  |  | | --- | --- | | *ANSWER:* | b, c, d | |

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| 21. Classify the number as to type.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | natural | |  | b. | irrational | |  | c. | rational | |  | d. | real | |  | e. | integer |  |  |  | | --- | --- | | *ANSWER:* | c, d | |

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| 22. Classify the number as to type.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | integer | |  | b. | real | |  | c. | natural | |  | d. | irrational | |  | e. | rational |  |  |  | | --- | --- | | *ANSWER:* | b, d | |

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| 23. Classify the number as to type.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | irrational | |  | b. | integer | |  | c. | real | |  | d. | rational | |  | e. | natural |  |  |  | | --- | --- | | *ANSWER:* | c, d | |

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| 24. Classify the number as to type.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | natural | |  | b. | real | |  | c. | irrational | |  | d. | rational | |  | e. | integer |  |  |  | | --- | --- | | *ANSWER:* | b, c | |

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| 25. State the real number property that justifies the statement.  ​    ​   |  |  |  | | --- | --- | --- | |  | a. | Property 1 of quotients | |  | b. | Property 4 of quotients | |  | c. | Property 2 of quotients | |  | d. | Property 5 of quotients | |  | e. | Property 3 of quotients |  |  |  | | --- | --- | | *ANSWER:* | c, d | |

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| 26. Classify the number as to type.  ​   |  |  | | --- | --- | | *ANSWER:* | integer, rational, real | |

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| 27. Classify the number as to type.  ​   |  |  | | --- | --- | | *ANSWER:* | rational, real | |

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| --- | --- | --- |
| 28. True or False?  ​  Every integer is a whole number.     |  |  | | --- | --- | | *ANSWER:* | False | |