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| **Multiple Choice** |

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| 1. 1/7 + 5/9 =   |  |  |  | | --- | --- | --- | |  | a. | 6/16 | |  | b. | 35/63 | |  | c. | 44/63 | |  | d. | 9/35 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 12:41 AM | | *DATE MODIFIED:* | 2/5/2019 2:30 AM | |

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| 2. 5/8 7/9 =   |  |  |  | | --- | --- | --- | |  | a. | 12/17 | |  | b. | 45/56 | |  | c. | 12/72 | |  | d. | 35/72 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 12:45 AM | | *DATE MODIFIED:* | 2/5/2019 2:31 AM | |

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| 3. 1/64/5 =   |  |  |  | | --- | --- | --- | |  | a. | 1/5 | |  | b. | 4/11 | |  | c. | 5/24 | |  | d. | 4/30 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 12:50 AM | | *DATE MODIFIED:* | 2/5/2019 2:31 AM | |

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| 4. 46.3 + 29.87 =   |  |  |  | | --- | --- | --- | |  | a. | 245 | |  | b. | 2,450 | |  | c. | 76.17 | |  | d. | 7.617 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 2:21 AM | | *DATE MODIFIED:* | 2/5/2019 2:32 AM | |

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| 5. 16.3 1.2 =   |  |  |  | | --- | --- | --- | |  | a. | 19.56 | |  | b. | 195.6 | |  | c. | 17.5 | |  | d. | 1.75 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 2:23 AM | | *DATE MODIFIED:* | 2/5/2019 2:33 AM | |

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| 6. 1,800 0.30 =   |  |  |  | | --- | --- | --- | |  | a. | 0.0001 | |  | b. | 540 | |  | c. | 6,000 | |  | d. | 60,000 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 9:48 PM | | *DATE MODIFIED:* | 2/5/2019 1:15 AM | |

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| 7. Convert 7/12 to a decimal.   |  |  |  | | --- | --- | --- | |  | a. | 0.583 | |  | b. | 1.714 | |  | c. | 19.83 | |  | d. | 84.00 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 9:58 PM | | *DATE MODIFIED:* | 2/5/2019 1:16 AM | |

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| 8. Convert 87.3% to a decimal.   |  |  |  | | --- | --- | --- | |  | a. | 0.0873 | |  | b. | 0.873 | |  | c. | 8.73 | |  | d. | 87.3 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:00 PM | | *DATE MODIFIED:* | 2/5/2019 1:16 AM | |

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| 9. Change 23.46 to a percent.   |  |  |  | | --- | --- | --- | |  | a. | 0.2346% | |  | b. | 23.46% | |  | c. | 2.346% | |  | d. | 2,346% |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:12 PM | | *DATE MODIFIED:* | 2/28/2019 4:01 PM | |

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| 10. The number of significant digits in 3.75 104 is   |  |  |  | | --- | --- | --- | |  | a. | two. | |  | b. | three. | |  | c. | four. | |  | d. | five. |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:15 PM | | *DATE MODIFIED:* | 2/5/2019 1:18 AM | |

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| 11. The inverse of 0.137 is approximately   |  |  |  | | --- | --- | --- | |  | a. | 1.37. | |  | b. | 7.30. | |  | c. | 73. | |  | d. | 137. |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:17 PM | | *DATE MODIFIED:* | 2/5/2019 1:18 AM | |

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| 12. Convert 540.7 to scientific notation.   |  |  |  | | --- | --- | --- | |  | a. | 5.407 102 | |  | b. | 5.407 10−2 | |  | c. | 5.407 103 | |  | d. | 5.407 10−3 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:24 PM | | *DATE MODIFIED:* | 2/5/2019 1:19 AM | |

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| 13. 2.63 10−2 =   |  |  |  | | --- | --- | --- | |  | a. | 0.00263 | |  | b. | 0.0263 | |  | c. | 26.3 | |  | d. | 263 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:27 PM | | *DATE MODIFIED:* | 2/5/2019 1:19 AM | |

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| 14. If you purchase four (4) twelve-packs of soda as a fundraiser for $10.00 and sell each can of soda for 50 cents, your profit is   |  |  |  | | --- | --- | --- | |  | a. | $9.74. | |  | b. | $14.00. | |  | c. | $24.00. | |  | d. | $34.00. |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:29 PM | | *DATE MODIFIED:* | 2/5/2019 1:19 AM | |

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| 15. Mercury (Hg), a metal, is liquid at room temperature. Its density is 13.6 g/cm3. If you have 100 mL of Hg, how many grams do you have?   |  |  |  | | --- | --- | --- | |  | a. | 0.136 | |  | b. | 1.36 10−3 | |  | c. | 136 | |  | d. | 1.36 103 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficult | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:31 PM | | *DATE MODIFIED:* | 2/5/2019 1:20 AM | |

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| 16. Convert 113°F to °C.   |  |  |  | | --- | --- | --- | |  | a. | 20.3°C | |  | b. | 62.8°C | |  | c. | 81°C | |  | d. | 235°C |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:33 PM | | *DATE MODIFIED:* | 2/5/2019 1:20 AM | |

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| 17. The equation x2 + 2xy + y2 can be expressed as:   |  |  |  | | --- | --- | --- | |  | a. | (x + y)2 | |  | b. | 2x + 2y | |  | c. | x + 2xy + y2 | |  | d. | x2 + y2 + xy |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:35 PM | | *DATE MODIFIED:* | 2/5/2019 1:21 AM | |

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| 18. Consider the following proportional relationship: x = ay/bd. Assuming all other quantities remain constant, what happens to the value of x when b increases?   |  |  |  | | --- | --- | --- | |  | a. | increases | |  | b. | decreases | |  | c. | remains the same | |  | d. | cannot be determined |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:36 PM | | *DATE MODIFIED:* | 2/5/2019 1:21 AM | |

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| 19. Consider the following proportional relationship: x = ay/bd. Assuming all other quantities remain constant, what happens to the value of x when d decreases?   |  |  |  | | --- | --- | --- | |  | a. | increases | |  | b. | decreases | |  | c. | remains the same | |  | d. | cannot be determined |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:39 PM | | *DATE MODIFIED:* | 2/5/2019 1:21 AM | |

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| 20. Consider the following proportional relationship: x = ay/bd. Assuming all other quantities remain constant, what happens to the value of x when the product of bd increases?   |  |  |  | | --- | --- | --- | |  | a. | increases | |  | b. | decreases | |  | c. | remains the same | |  | d. | cannot be determined |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/4/2019 10:40 PM | | *DATE MODIFIED:* | 2/5/2019 1:22 AM | |

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| **Completion** |

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| 21. 74 kV is equal to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ volts.   |  |  | | --- | --- | | *ANSWER:* | 74,000 | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 2/5/2019 9:11 PM | | *DATE MODIFIED:* | 2/5/2019 9:13 PM | |

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| 22. 400 mA is equal to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ amperes.   |  |  | | --- | --- | | *ANSWER:* | 0.40 | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 2/5/2019 9:13 PM | | *DATE MODIFIED:* | 2/5/2019 9:14 PM | |

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| 23. 120,000 V is equal to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ kVp.   |  |  | | --- | --- | | *ANSWER:* | 120 | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 2/5/2019 9:14 PM | | *DATE MODIFIED:* | 2/5/2019 9:14 PM | |

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| 24. 3.7 m are equal to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cm.   |  |  | | --- | --- | | *ANSWER:* | 370 | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 2/5/2019 9:15 PM | | *DATE MODIFIED:* | 2/5/2019 9:15 PM | |

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| **Problem** |

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| 25. 1/R = 1/R1 + 1/R2; solve for R2.   |  |  | | --- | --- | | *ANSWER:* | RR1/R1 − R | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficult | | *QUESTION TYPE:* | Numeric Response | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/5/2019 9:17 PM | | *DATE MODIFIED:* | 2/5/2019 9:18 PM | |

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| 26. F = Gm1m2/r2; solve for m1.   |  |  | | --- | --- | | *ANSWER:* | Fr2/Gm2 | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficult | | *QUESTION TYPE:* | Numeric Response | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/5/2019 9:18 PM | | *DATE MODIFIED:* | 2/5/2019 9:19 PM | |

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| 27. PV = nRT; solve for T.   |  |  | | --- | --- | | *ANSWER:* | PV/nR | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficult | | *QUESTION TYPE:* | Numeric Response | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/5/2019 9:19 PM | | *DATE MODIFIED:* | 2/5/2019 9:19 PM | |

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| 28. I = E/R + r; solve for r.   |  |  | | --- | --- | | *ANSWER:* | E − IR/I | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficult | | *QUESTION TYPE:* | Numeric Response | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/5/2019 9:20 PM | | *DATE MODIFIED:* | 2/5/2019 9:20 PM | |

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| 29. P = 2L + 2W; solve for L.   |  |  | | --- | --- | | *ANSWER:* | (P − 2W)/2 | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficult | | *QUESTION TYPE:* | Numeric Response | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/5/2019 9:20 PM | | *DATE MODIFIED:* | 2/5/2019 9:21 PM | |

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| 30. V = 1/3r2h; solve for .   |  |  | | --- | --- | | *ANSWER:* | 3V/r2h | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficult | | *QUESTION TYPE:* | Numeric Response | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/5/2019 9:21 PM | | *DATE MODIFIED:* | 2/18/2019 10:20 PM | |

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| 31. P1V1/T1 = P2V2/T2; solve for V2.   |  |  | | --- | --- | | *ANSWER:* | P2V2T1/P1V1 | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficult | | *QUESTION TYPE:* | Numeric Response | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 2/5/2019 9:22 PM | | *DATE MODIFIED:* | 2/5/2019 9:22 PM | |