

Date May 6, 2017Contestant Number ANSWER KEY

Answer sheet for 2017 SkillsUSA Related Technical Math Test

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| <p>1. <u>88 insulation boards need to be ordered</u></p> <p>2. <u>x = 2.50 inches; y = 3.54 inches</u></p> <p>3. <u>148.677 feet</u></p> <p>4. <u>40 feet</u></p> <p>5. <u>236 discs</u></p> <p>6. <u>88°</u></p> <p>7. <u>44°</u></p> <p>8. <u>$I_1 = 0.80$ amps; $I_2 = 1.50$ amps; $I_3 = 0.75$ amps</u></p> <p>9. <u>$2 \pm \sqrt{2}$</u></p> <p>10. <u>1.41 inches</u></p> <p>11. <u>54.43°</u></p> <p>12. <u>95%</u></p> <p>13. <u>$a = 4$; $h = \sqrt{12}$</u></p> <p>14. <u>54°</u></p> <p>15. <u>1736.11 pounds</u></p> <p>16. <u>$1 \frac{1}{16}$ inches</u></p> <p>17. <u>2.598 cm</u></p> <p>18. <u>25.00 feet</u></p> <p>19. <u>37.71 inches</u></p> <p>20. <u>1038 buggies</u></p> <p>21. <u>0.125</u></p> <p>22. <u>$x = 8y/7$</u></p> <p>23. <u>0.15</u></p> <p>24. <u>153,000 Newtons</u></p> <p>25. <u>$P(E \text{ or } T) = 0.11$</u></p> | <p>26. <u>3811.21 cubic inches</u></p> <p>27. <u>4.5 ft from 10 lb end</u></p> <p>28. <u>1.53 feet per second</u></p> <p>29. <u>12 gal red; 16 gal yellow</u></p> <p>30. <u>2.79 cm</u></p> <p>31. <u>$5 \frac{11}{16}$ inches</u></p> <p>32. <u>3.58 square meters</u></p> <p>33. <u>43.8 calories</u></p> <p>34. <u>50 mm</u></p> <p>35. <u>0.100</u></p> <p>36. <u>54.9 gallons per minute</u></p> <p>37. <u>0.1247</u></p> <p>38. <u>22.14 feet</u></p> <p>39. <u>449.90 feet</u></p> <p>40. <u>1204 additional blocks</u></p> <p>41. <u>1.23 inches</u></p> <p>42. <u>1</u></p> <p>43. <u>11.7 ohms</u></p> <p>44. <u>2208 solar panels</u></p> <p>45. <u>50 dB</u></p> <p>46. <u>20 inches</u></p> <p>47. <u>x = 19 inches; y = 8 inches</u></p> <p>48. <u>2.437 inches</u></p> <p>49. <u>4</u></p> <p>50. <u>86.05</u></p> |
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