

# "Math is Cool" Championships - 1010-11

October 20, 2010

Final Score: 1-15

**KEY**

Final Score: 16-30

**KEY**

Final Score: 31-40

**KEY**

STUDENT NAME: \_\_\_\_\_ School Name: \_\_\_\_\_

Proctor Name: \_\_\_\_\_ Team #: \_\_\_\_\_

## High School Individual Contest - Score Sheet

**DO NOT WRITE IN SHADED REGIONS**

|                    | Answer   | 1 or 0 | 1 or 0 |
|--------------------|--|--------|--------|
| 1                  | 56477  |        |        |
| 2                  | 4/5  |        |        |
| 3                  | 20   |        |        |
| 4                  | 17   |        |        |
| 5                  | 10/7   |        |        |
| 6                  | 5/2  |        |        |
| 7                  | $539\pi$ [un <sup>3</sup> ]                        |        |        |
| 8                  | -22, 16  |        |        |
| 9                  | 13   |        |        |
| 10                 | $\frac{5x-9}{6}$ or $\frac{5x-3}{6} - \frac{3}{2}$ |        |        |
| 11                 | 298 [ft <sup>2</sup> ]                             |        |        |
| 12                 | 1560   |        |        |
| 13                 | [\$] 42  |        |        |
| 14                 | $(x-6)(x+3)$                                       |        |        |
| 15                 | 2/3  |        |        |
| <b>1-15 TOTAL:</b> |  |        |        |

|                     | Answer           | 1 or 0 | 1 or 0 |
|---------------------|------------------|--------|--------|
| 16                  | 25/6             |        |        |
| 17                  | 105/512          |        |        |
| 18                  | 6720 [ways]      |        |        |
| 19                  | 2                |        |        |
| 20                  | 32 [°]           |        |        |
| 21                  | 22 [un]          |        |        |
| 22                  | 21 [lines]       |        |        |
| 23                  | 0                |        |        |
| 24                  | 5/13             |        |        |
| 25                  | 24 [cm]          |        |        |
| 26                  | $5\sqrt{5}$ [cm] |        |        |
| 27                  | 343              |        |        |
| 28                  | 60 [m]           |        |        |
| 29                  | 2                |        |        |
| 30                  | 8/21             |        |        |
| <b>16-30 TOTAL:</b> |                  |        |        |

|                     | Answer                     | 1 or 0 | 1 or 0 |
|---------------------|----------------------------|--------|--------|
| 31                  | 8 [pieces]                 |        |        |
| 32                  | $2\sqrt{6} + 4$ [in]       |        |        |
| 33                  | 6                          |        |        |
| 34                  | $x + 2$                    |        |        |
| 35                  | 36 [ways]                  |        |        |
| 36                  | 49/2 [units <sup>2</sup> ] |        |        |
| 37                  | 37/180                     |        |        |
| 38                  | 57 [lockers]               |        |        |
| 39                  | 4/53                       |        |        |
| 40                  | 478                        |        |        |
| <b>31-40 TOTAL:</b> |                            |        |        |

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|--------------------|--------|--------|--------|
| 1                  |        |        |        |
| 2                  |        |        |        |
| 3                  |        |        |        |
| 4                  |        |        |        |
| 5                  |        |        |        |
| 6                  |        |        |        |
| 7                  |        |        |        |
| 8                  |        |        |        |
| 9                  |        |        |        |
| 10                 |        |        |        |
| 11                 |        |        |        |
| 12                 |        |        |        |
| 13                 |        |        |        |
| 14                 |        |        |        |
| 15                 |        |        |        |
| <b>1-15 TOTAL:</b> |        |        |        |

|                     | Answer | 1 or 0 | 1 or 0 |
|---------------------|--------|--------|--------|
| 16                  |        |        |        |
| 17                  |        |        |        |
| 18                  |        |        |        |
| 19                  |        |        |        |
| 20                  |        |        |        |
| 21                  |        |        |        |
| 22                  |        |        |        |
| 23                  |        |        |        |
| 24                  |        |        |        |
| 25                  |        |        |        |
| 26                  |        |        |        |
| 27                  |        |        |        |
| 28                  |        |        |        |
| 29                  |        |        |        |
| 30                  |        |        |        |
| <b>16-30 TOTAL:</b> |        |        |        |

|                     | Answer | 1 or 0 | 1 or 0 |
|---------------------|--------|--------|--------|
| 31                  |        |        |        |
| 32                  |        |        |        |
| 33                  |        |        |        |
| 34                  |        |        |        |
| 35                  |        |        |        |
| 36                  |        |        |        |
| 37                  |        |        |        |
| 38                  |        |        |        |
| 39                  |        |        |        |
| 40                  |        |        |        |
| <b>31-40 TOTAL:</b> |        |        |        |

