

**MASSACHUSETTS MATHEMATICS LEAGUE  
DECEMBER 2005 ANSWERS**

|            |                           |                   |                   |
|------------|---------------------------|-------------------|-------------------|
| Round 1:   | A) $\frac{24}{7}$         | B) $\frac{16}{9}$ | C) 8,400          |
| Round 2    | A) 12                     | B) (4, 8, 0)      | C) 25             |
| Round 3    | A) (-6, -2)               | B) 335            | C) 301            |
| Round 4    | A) 1.5                    | B) 25             | C) 2 or 4         |
| Round 5    | A) quadrupled<br>(or x 4) | B) 2:3:5          | C) 144            |
| Round 6    | A) 100                    | B) 17             | C) $\sqrt{3} : 2$ |
| Team Round | A) 64/3                   | B) 30 and 138     | C) 115.5          |
|            | D) $(A=)\frac{B}{C^2}$    | E) \$131          | F) 114            |