

Mathlete Training Centre
Round 1 RIPMWC Open

2009 RIPMWC Open round 1 Answers

- 1) 30 cm^2
- 2) 150°
- 3) 24
- 4) $\frac{97}{91}$
- 5) 210
- 6) 8%
- 7) $101\frac{1}{2} \text{ cm}^2$
- 8) No. of different ways of coloring = $3 \times 2 \times 2 \times 2 + 3 \times 2 \times 2 \times 1 = 36$
- 9) 7
- 10) B, D, G were switched on
- 11) $\frac{2}{5}$
- 12) .25h or 75 min
- 13) $2047\frac{1023}{1024}$
- 14) $EF \approx 6.5$
- 15) 6 hours
- 16) 3 (mod 13)
- 17) A_6 is the last point.
- 18) 88
- 19) 70
- 20) 16