

# MAINE 1995 NATIONAL CONVENTION ANSWERS

## ALPHA CIPHERING

- 12.5
- 11
- $x = -29$   $y = 2$
- 48
- 4
- 2520
- 130 cm
- 24
- 17
- $\frac{5}{3}$
- 65
- 5
- 16
- { 20, 80, 140, 200, 260, 320 }
- 37
- (3, 4)
- 16
- $\frac{-5 + \sqrt{33}}{2}$
- $108\sqrt{3}$
- $A = 1$   $B = -4$   $C = 7$

## THETA CIPHERING

- 41
- 230
- $-\frac{17}{8}$
- 26 degrees
- 7
- 300 or 300%
- undefined
- 21
- 126
- 11
- 1995
- 8
- $2\sqrt[12]{32}$
- 28,224
- $\frac{3xy^2 - x^2}{y^2 + 2yx^2}$
- 20
- $2\sqrt{10}$
- loss of \$16.00
- $4\sqrt{21}$
- $x = 5$