American Computer Science League

Contest #2

Elementary Division Solutions

$$-*53/+/62*732 = -(5*3)/+(6/2)(7*3)2$$

= $-15/+3212 = -15/(3+21)2 = -15/242$
= $-15(24/2) = -1512 = 15-12 = 3$

1. 3

2. Prefix/Infix/Postfix

2. 5

3. Prefix/Infix/Postfix

$$7*(9+1^2-6/3) = 7*(9+(12^2-6/3)) = 7*(9+63^2-6/3) = 7*(9+65^2-6/3) = 7*(9+65^2-6/3) = 7*(9+65^2-6/3) = 7*(9+65^2-6/3) = 7*(9+65^2-6/3) = 7*($$

3. 7912^+63/-*

4. Prefix/Infix/Postfix

$$\frac{2+6}{4} * \frac{8}{4-2} * 3^{7-5} = ((2+6)/4) * (8/(4-2)) * (3^{(7-5)})$$

$$= ((26+)/4) * (8/(42-)) * (3^{(7-5)})$$

$$= (26+4/) * (842-/) * (375-^{\circ})$$

$$= (26+4/842-/*) * (375-^{\circ})$$

$$= 26+4/842-/* 375-^{\circ}$$

4. 26+4/842-/*375-^*

5. Prefix/Infix/Postfix

5. $/ + + 93*7 + 45^+ + 412$