

$$a = 2002$$

$$b = 08$$

$$c = 29$$

$$\underline{\underline{1)}} \quad \frac{2002}{8 \cdot 29} = \frac{2002}{232}$$

$$1) \quad 2002 \div 232 = 8 \text{ (circled)} + 146$$

$$146 = 12$$

$$232 = 146 \cdot 1 + 86$$

$$146 = 86 \cdot 1 + 60$$

$$86 = 60 \cdot 1 + 26$$

$$60 = 26 \cdot 2 + 8$$

$$26 = 8 \cdot 3 + 2$$

$$8 = 2 \cdot 4$$

$$\frac{2002}{232} = [8, 1, 1, 1, 2, 3, 4]$$

$$[8, 1, 1, 1, 2, 3, 4]$$

$$2) \quad \frac{2002}{232} = 8 + \frac{146}{232} = 8 + \frac{1}{\left(\frac{232}{146}\right)} = 8 + \frac{1}{1 + \left(\frac{86}{146}\right)}$$

$$= 8 + 1 + \frac{1}{\left(\frac{146}{86}\right)} = 8 + 1 + \frac{1}{1 + \frac{60}{86}} =$$

$$= 8 + \frac{1}{1 + \frac{1}{1 + \frac{1}{\left(\frac{26}{60}\right)}}} = 8 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{26}{60}}}} =$$

$$= 8 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{\left(\frac{60}{26}\right)}}}} = 8 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{2 + \frac{6}{26}}}}} =$$

$$= 8 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{2 + \frac{1}{\left(\frac{26}{8}\right)}}}}}} = 8 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{2 + \frac{1}{3 + \frac{2}{8}}}}}}} =$$

$$= 8 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{2 + \frac{1}{3 + \frac{1}{4}}}}}} = [8, 1, 1, 1, 2, 3, 4]$$

3 game II

$$\sqrt{232} = 15 + \sqrt{232 - 15} = 15 + \frac{1}{\left(\frac{1}{\sqrt{232-15}}\right) \frac{\sqrt{232+15}}{\sqrt{232+15}}} =$$

$$15 + \frac{1}{\left(\frac{1}{\sqrt{232+15}}\right) \frac{\sqrt{232+15}}{\sqrt{232+15}}} = 15 + \frac{1}{15 + \frac{\sqrt{232-15}}{7}} =$$

$$= 15 + \frac{1}{120 + \frac{1}{\left(\frac{1}{\sqrt{232-15}}\right) \frac{\sqrt{232+15}}{\sqrt{232+15}}}} =$$

$$15 + \frac{1}{120 + \frac{1}{840 + \frac{1}{\left(\frac{1}{\sqrt{232-15}}\right) \frac{\sqrt{232+15}}{\sqrt{232+15}}}}} = [15, 120, 840]$$