Grade 9 Warm Up

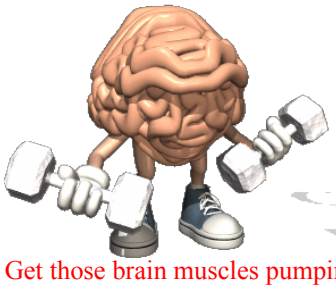
Get those brain muscles pumping!!!

Without your calculators evaluate the following expressions:

1) $\dfrac{3^2(5^0+2+2^2)}{2(5+4^2)}$

2) $\dfrac{4^2(3^4\div 2^0)}{2^4(3^4-2^0)}$

3) $\dfrac{2^4(4^3\div 2^2)-4^0}{3(3^4+2^2)}$



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Without your calculators evaluate the following expressions:

1) $\dfrac{3^2(5^0+2+2^2)}{2(5+4^2)}$

$\dfrac{9(7)}{2(21)} = \dfrac{63}{42} = 1.5$

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Without your calculators evaluate the following expressions:

2) $\dfrac{4^2(3^4 \div 2^0)}{2^4(3^4 - 2^0)}$

$\dfrac{4^2(81 \div 1)}{2^4(81-1)}$

$\dfrac{4^2(81)}{2^4(80)}$

$\dfrac{1296}{1280}$ $\dfrac{16(81)}{16(80)} = \dfrac{81}{80}$

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Without your calculators evaluate the following expressions:

3) $\dfrac{2^4(4^3 \div 2^2) - 4^0}{3(3^4 + 2^2)}$

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