

Get those brain muscles pumping!!!

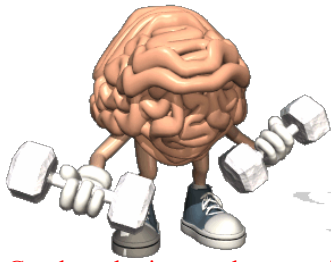
# Grade 9 Warm Up

Without your calculators evaluate the following expressions:

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

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

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



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Without your calculators evaluate the following expressions:

$$1) 2 = 3 + 4 = 7 \times 9 = 63$$

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

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



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Without your calculators evaluate the following expressions:

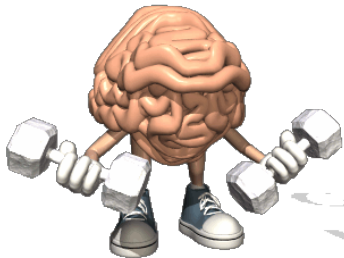
$$2) \frac{4^2(3^4 \div 2^0)}{2^4(3^4 - 2^0)}$$

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

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

$$\frac{1296}{1280}$$

$$\frac{\cancel{16}(81)}{\cancel{16}(80)} = \frac{81}{80}$$



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Without your calculators evaluate the following expressions:

$$3) 2^4(4^3 \div 2^2) - 4^0$$

$$\frac{3(3^4 + 2^2)}{16(64 \div 4)}$$

$$16 \times 16 = 256$$

$$3 \times 14 = 42$$

$$256 - 42 = 214$$

$$\frac{214}{16} = 13.375$$

Mid unit  
Review  
Pg. 69 #1-10