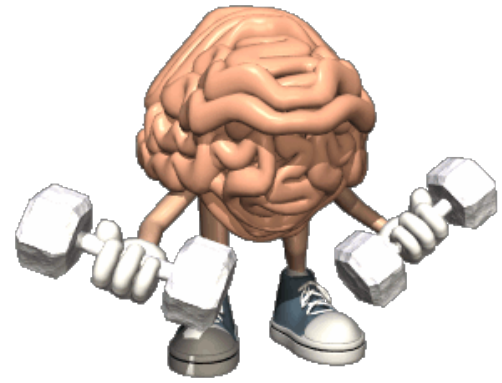


# Warm Up



Factor the following  
Using the Appropriate method:

**(MUST PASS IN)**

1)  $32m^4n^3 + 16m^2n^2 + 24m^2$

[Redacted]  
 $8m^2(4m^2n^3 + 2n^2 + 3)$

2)  $k^2 - 2k - 15$       $\frac{x}{-15} \frac{+}{-2}$

[Redacted]  
 $(k-5)(k+3)$

3)  $2t^2 - 7t + 6$

mult    add  
+12    -7  
-1, 12  
-2, 6  
-3, 4

[Redacted]

$2t^2 - 4t - 3t + 6$   
 $2t(t-2) - 3(t-2)$   
 $(t-2)(2t-3)$

4)  $40b^2a^2 + 40b^2 + 16b$

[Redacted]  
 $8b(5ba^2 + 5b + 2)$

5)  $x^2 - 5x - 24$

$\frac{x}{-24} \frac{+}{-5}$   
+1, 24  
+2, 12  
+3, 8  
+4, 6

[Redacted]

$(x+3)(x-8)$

6)  $7x^2 + 17x + 10$

[Redacted]

$7x^2 + 7x + 10x + 10$       $\frac{\text{mult}}{+70} \frac{+}{+17}$   
 $7x(x+1) + 10(x+1)$   
 $(x+1)(7x+10)$