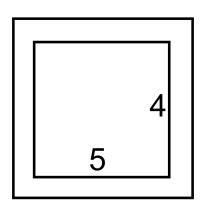
Honors Algebra II Notes Section 14 Solving ax <sup>2</sup> +bx+c=0 by Factoring		
EXAMPLE 1 Facto	r.	
a) 5x²-17x +6	b) 3x2+20x -7	c) 7x²-20x -3
d) 5z²+16z +3	e) Zu²+u +3	f) 3x2+5x -12
EXAMPLE 2 Facto	K.	
a) 9x <sup>2</sup> -64	b) 4y²+20y+25	c) 36w²-12w+1

d) 16x2-1	e) 25s²-80s+64	f) <b>36n</b> ²-9
EXAMPLE 3 Factor.		
a) 5x²-45	b) 6x <sup>2</sup> -14x+8	c) -5z²+20z
EXAMPLE 4 Solve.		
a) 3x²+10x-8=0	b) 5p²-16p+15=4p-5	c) 12x²+7x+2=x+8

## **EXAMPLE 5** What should the width of the border be if you have 10ft.<sup>2</sup>



## EXAMPLE 5 A magazine has 28,000 subscribers when it charges \$10/subscription. For each \$1 increase, the magazine loses 2000 subscribers. How much should the magazine charge to maximize revenue? What is the maximum revenue?

Revenue = # of Subscribers x Subscription \$