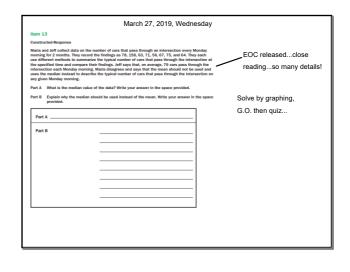
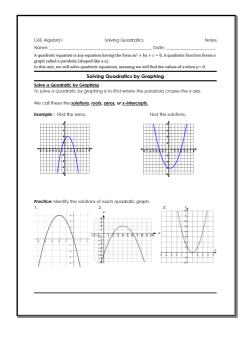
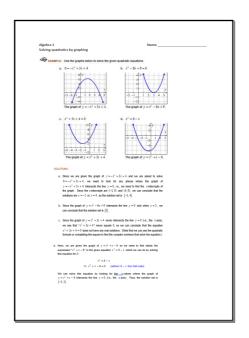


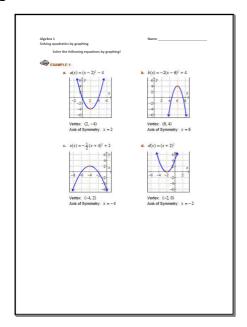
Algebra I	Name Lrights reserved.	II
U3B SG ~ Solving Quadratic	Functions	
Solve each equation by factoring. 1) $(x-1)(5x+8)=0$	2) $n^2 - n - 12 = 0$	
	2) $n^2 - n - 12 = 0$ (4, -3)	
$\left[1,-\frac{8}{5}\right]$	(ms)	
3) $7r^2 + 3r = 0$		
$\left\{-\frac{3}{7}, 0\right\}$		
(7**)		
Solve each equation by taking square		
4) $a^2 = 25$	5) p ² + 1 = 82	
{5, -5}	(9, -9)	
6) $-4 + 64r^2 = 60$		
$\{1, -1\}$		

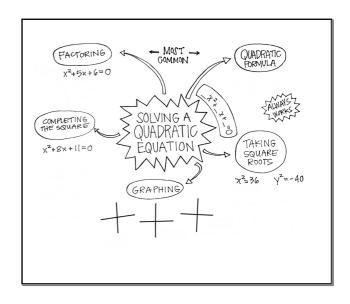
Solve each equation by completing	the square.
7) $x^2 + 12x - 37 = 8$	
(3, -15)	
Solve each equation with the quadr	ratic formula.
8) 2x ² - 10x + 11 = 0	
$\frac{ 5+\sqrt{3} }{2}, \frac{5-\sqrt{3}}{2}$	
2 2	
	se any factoring method you choose.
Solve each equation by factoring, u 9) $k^2 + 7k + 6 = 0$	se any factoring method you enouse. $10) 7r^2 - 42r = 0$
(-1, -6)	(6,0)
	$12) \ n^2 + 8n + 15 = 0$
11) $3m^2 - 6m - 9 = 0$ (-1, 3)	12) $n^2 + 8n + 15 = 0$ [-3,-5]
11) 3m ² - 6m - 9 = 0 [-1, 3]	

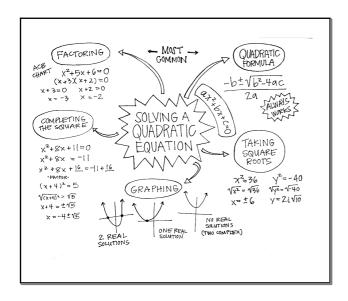


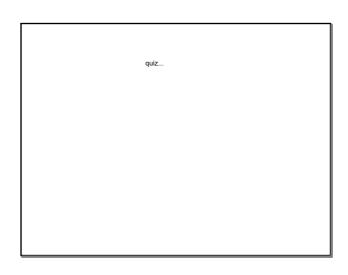












Constructed Reponse

Matia and leff collect data on the number of care that pass through an intersection every Manday moming for 2 months. They recent the findings as 78: 158, 63, 71, 56, 67, 75, and 64. They seeds use different methods to summarize the hypotel number of care that pass brings the intersection at intersection each finding moming. Minimage, Alf any that, or neverage, 79 care pass through the intersection of care that pass through the intersection on any given Monday moming. Minimage, Mariange, Alf any that, or never of care that pass through the intersection on any given Monday moming.

Part A Wats the median value of the data? Write your answer in the space provided.

Part B Explain why the emotian should be used instead of the mean. Write your answer in the space provided.

Part B Part

SAMPLE ITEMS 1. What are the zeros of the function represented by the quadratic	
A Mind on the case of the foundation consented by the conduction	
	expression $2x^2 + x - 3$?
A. $x = -\frac{3}{2}$ and $x = 1$	
B. $x = -\frac{2}{3}$ and $x = 1$	
C. $x = -1$ and $x = \frac{2}{3}$	
D. $x = -1$ and $x = -\frac{3}{2}$	
2	
2. What is the vertex of the graph of $f(x) = x^2 + 10x - 9$?	
A. (5, 66)	
B. (5, -9)	
C. (-5, -9) D. (-5, -34)	
0, 04)	
3. Which of these is the result of completing the square for the exp	pression $x^2 + 8x - 30$?
A. $(x + 4)^2 - 30$	
B. $(x + 4)^2 - 46$ C. $(x + 8)^2 - 30$	
D. (x + 8) ² - 94	

Item 13	
Constructed-Response	
morning for 2 months. They record use different methods to summatize the specified time and compare the intersection each Monday morning uses the median instead to describany given Monday morning. Part A What is the median value of	umber of care that pass through an intersection every Monday for forlings as 78 LB, 66, 73, 15, 66, 77, 500 et 84. They each forlings that they want to be seen to be seen to be seen to be in findings). Jeff says that, or average. 70 can pass through the Maria disagrees and days that the mean should not be used and only the seen to be seen to be seen to be the typical number of care that pass through the intersection on or the data? What you masser in the space provided.
provided.	louid be used instead of the mean. Write your answer in the space
Part A	
Turk —	
Part B	
	November 2010 Control of the Control of Cont

lgebra 1 Unit 3B T- 'emember to show work!'	est Review Name
irections: Solve the given quadratics using the best	method.
1. x ² - 14x - 15 = 0	2. 3x ² + 2x - 8 = 0
3. $5x^2 + 4x - 12 = 0$	4. 2x ² - 50 = 0
5. $x^2 + 3x = 10$	6. $5x^2 + 10x + 5 = 0$
a) x = -2 and x = -5	a) x = 1
b) x = 2 and x = -5	b) x = -1
c) x = 3 and x = 10	c) x = 5
d) x = 10 and x = -1	d) x = -10
7. 3x ² – 27	8. (x+8) ² – 32
9. x ² - 4 = 5	$10.x^2 - 6x + 5 = 0$
a) x = 1 and x = -1	a) x = -5 and x = -1
b) x = 2 and x = -2	b) x = 7 and x = 1
c) x = 3 and x = -3	c) x = 5 and x = 1
d) $x = 4$ and $x = -4$	d) x = 2 and x = -2
11. x ² +4x - 1 = 2	$127x^2 - 5x + 1 = 0$

