



Unit 9 STAAR Review

	Que	estion	TEKS	Exam/ Question#	Unit
1		ich expression is equivalent to $\sqrt{184}$?	A.11(A)	2021/ Question#1	9
	В	$2\sqrt{46}$ [correct answer]			
		$4\sqrt{23}$			
	D	$4\sqrt{46}$			
2	What are the solutions to $2(x - 7)^2 = 32$?		A.8(A)	2016/	9
	Α	$x = 7 \pm \sqrt{32}$		Question#29	
	В	$x = \pm \sqrt{65}$			
	С	x = 3 and $x = 11$ [correct answer]			
	D	x = -1 and $x = 15$			

	Qu	estion	TEKS	Exam/ Question#	Unit
3	Which statement about the quadratic functions below is false?		A.9(D)	2014/ Question#21	9
	f(x)	$=-\frac{3}{4}x^2+6$			
	g(x)	$=-2x^2-5$			
	h(x)	$=\frac{1}{4}x^2+1$			
	A	The graphs of two of these functions have a minimum point. [correct answer]			
	В	The graphs of all these functions have the same axis of symmetry.			
	С	The graphs of two of these functions do not cross the <i>x</i> -axis.			
	D	The graphs of all these functions have different <i>y</i> -intercepts.			
4	Wh	ich expression is equivalent to $4\sqrt{147}$?	A.11(A)	2019/	9
	Α	$196\sqrt{3}$		Question#53	
	В	$12\sqrt{7}$			
	С	$3\sqrt{7}$			
	D	$28\sqrt{3}$ [correct answer]			

Question	TEKS	Exam/ Question#	Unit
What are the solutions to the equation $x^2 - 4x = -1$? A $x = \frac{-4 \pm \sqrt{20}}{2}$ B $x = \frac{4 \pm \sqrt{12}}{2}$ [correct answer] C $x = \frac{-4 \pm \sqrt{12}}{2}$ D $x = \frac{4 \pm \sqrt{20}}{2}$	A.10(A)	2014/ Question#24	9
6 Which value of x is a solution to this equation? $5x^2 - 36x + 36 = 0$ A $x = -6$ B $x = 4$ C $x = -1.8$ D $x = 1.2$ [correct answer]	A.8(A)	2019/ Question#40	8
7 Which function is equivalent to $y = 3(x + 2)^2 + 7$? A $y = 3x^2 + 12x + 33$ B $y = 3x^2 + 12x + 19$ [correct answer] C $y = 3x^2 + 19$ D $y = 3x^2 + 33$	A.6(B)	2019/ Question#43	7

Qı	uestion	TEKS	Exam/ Question#	Unit
q(s)	hich function is equivalent to $a(x) = 9x^2 - 24x + 16$? $a(x) = (9x - 4)(x - 4)$ $a(x) = (3x + 4)^2$ $a(x) = (9x + 4)(x + 4)$ $a(x) = (3x - 4)^2$ [correct answer]	A.10(E)	2019/ Question#48	6
fui ba Wł	The initial number of bacteria decreases at a rate of 88% each day. The number of bacteria increases at a rate of 12% each day. [correct answer]	A.9(B)	2018/ Question#46	5

	Question			TEKS	Exam/ Question#	Unit
10	The table shows the remaining in an atthe number of m	automatic feeder	as a function of	A.2(C)	2019/ Question#32	4
	Number of Meals Dispensed, <i>n</i>	Amount of Pet Food Remaining $f(n)$ (cups)				
	1	21				
	3	15				
	6	6				
	7	3				
	Based on the table, which function models this situation? A $f(n) = -3n + 24$ [correct answer] B $f(n) = -\frac{1}{3}n + 16$					
	C $f(n) = -3n + 64$ D $f(n) = -\frac{1}{3}n + 8$					