



Unit 5 STAAR Review

	Question	TEKS	Exam/ Question#	Unit
1	The graph shows the number of game consoles sold in millions since 2009. $ \begin{array}{cccccccccccccccccccccccccccccccccc$	A.9(C)	2021/ Question#11	5
2	Which expression is equivalent to $(x^9yz^4)^5$? A $x^{14}y^6z^9$ B $x^{14}y^5z$	A.11(B)	2021/ Question#8	5
	C $x^{45}yz^{20}$ D $x^{45}y^5z^{20}$ [correct answer]			

Question			TEKS	Exam/ Question#	Unit
population by coun where the turtles la numbers of nesting	population by counting the number of nesting sites where the turtles lay their eggs. The table shows the numbers of nesting sites for several years since 2001. The data can be modeled by an exponential		A.9(E)	2021/ Question#21	5
Number of Years Since 2001 <i>x</i>	Number of Nesting Sites $n(x)$				
1	46,125				
2	37,994				
3	40,513				
4	29,368				
5	34,082				
6	31,746				
7	27,691				
Which function bes	Which function best models the data?				
A $n(x) = 25,95$	A $n(x) = 25,956.80(1.08)^x$				
B $n(x) = 46,79$	B $n(x) = 46,797.94(0.93)^x$ [correct answer]				
\mathbf{c} $n(x) = 1.08(2)$	$n(x) = 1.08(25, 956.80)^x$				
D $n(x) = 0.93(4$.6, 797.94) ^x				

Que	stion			TEKS	Exam/ Question#	Unit
		presents sor	ne points on the graph of	A.9(C)	2021/ Question#38	5
	x	f(x)				
	2	36				
	3	54				
	4	81				
	5	121.5				
	6	128.25				
			nts this relationship?			
A	f(x) =	$16\left(\frac{3}{2}\right)^x$ [corr	rect answer]			
В	f(x) =	$16\left(\frac{2}{3}\right)^x$				
С	f(x) =	$36\left(\frac{3}{2}\right)^x$				
D	f(x) =	$36\left(\frac{2}{3}\right)^x$				

	Question	TEKS	Exam/ Question#	Unit
5	A part of exponential function f is graphed on the grid. Which inequality best represents the domain of the part shown? A $x > 1$ B $y > 1$ C $x > -2$ [correct answer] D $y > -2$	A.9(A)	2021/ Question#49	5
6	The values in the table represent a linear relationship between x and y. x -8.5 -6.5 -2.5 -1 y -92 -72 -32 -17 What is the rate of change of y with respect to x? A 10 [correct answer] B 17 C -10 D -17	A.3(B)	2021/ Question#3	4

Which graph represents a function with a domain of all real numbers less than or equal to 6? A A A A A A A A A A A A A	Question	TEKS	Exam/ Question#	Unit
A 10	Willer graph represents a ranction with a domain	A.2(A)		4
B	of all real numbers less than or equal to 6? A C		Question#33	

	Question		TEKS	Exam/ Question#	Unit
8	Which situation best represe A When the number of better the number of car sales	us stops increases,	A.4(B)	2017/ Question#9	3
	B When it rains several in of a lake increases. [cor				
	C When fewer firefighters fire, the damage cause decreases.	•			
	D When ice cream sales in sunburn increase.	ncrease, incidents of			
A grill at a barbecue restaurant will be sausage links that are 2 lb each and be are 6 lb each. No more than 120 lb of and briskets will be cooked on the grill. Which inequality represents all possib combinations of <i>x</i> , the number of saus will be cooked on the grill, and <i>y</i> , the rebriskets that will also be cooked?		ach and briskets that 120 lb of sausage links on the grill. all possible per of sausage links that nd y, the number of	A.2(H)	2019/ Question#15	2
	A $6x + 2y < 120$				
	B $2x + 6y \le 120$ [correct	answer]			
	C $6x + 2y > 120$ D $2x + 6y \ge 120$				

Question	TEKS	Exam/ Question#	Unit
The graph of a linear function is shown on the grid. The graph of a linear function is shown on the grid is graph. The graph of a linear function is shown on the grid is graph. The graph of a linear function is shown on the grid is graph. The graph of a linear function is shown on the grid is graph. The graph of a linear function is shown on the grid is graph. The graph of a linear function is shown on the grid is graph. The graph of a linear function is shown on the graph of a linear function is shown on the graph of a linear function is shown on the graph of a linear function is shown on the graph of a linear function is sho	A.2(C)	2019/ Question#23	1