Unit 6 STAAR Review

	Question	TEKS	Exam/ Question#	Unit
1	Which expression is a factored form of $2x^2 - 25x + 63$? **A** $(x - 9)(2x - 7)$ [correct answer] **B** $(x - 7)(2x - 9)$ **C** $(x + 7)(2x + 9)$ **D** $(x + 9)(2x + 7)$	A.10(E)	2021/ Question#18	6
2	Which expression is equivalent to $(\frac{3}{2}p + 1)(\frac{1}{2}p + 3)$? **A** $\frac{3}{4}p^2 + 5p + 3$ [correct answer] **B** $\frac{3}{4}p^2 + 10p + 3$ **C** $2p^2 + 3$ **D** $4p^2 + 3$	A.10(B)	2021/ Question#29	6
3	Which expression is equivalent to $9n^2 - 25$? **A** $(3n - 5)^2$ **B** $9(n - 4)^2$ **C** $(3n + 5)(3n - 5)$ [correct answer] **D** $9(n + 4)(n - 4)$	A.10(F)	2021/ Question#40	6

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4	Which expression is equivalent to $35m^2 - 63$? **A** $7m(5m - 9)$ **B** $-7m(5m + 9)$ **C** $7(5m^2 - 9)$ [correct answer] **D** $-7(5m^2 + 9)$	A.10(D)	2021/ Question#48	6
5	Which expression is equivalent to $(10 + 7r - r^2) + (-6r^2 - 18 + 5r)$? **A** $7r^2 + 2r - 8$ **B** $-7r^2 + 12r - 8$ [correct answer] **C** $-7r^2 + 2r + 8$ **D** $7r^2 + 12r + 8$	A.10(A)	2019/ Question#16	6
6	Which expression is equivalent to $(15a^0b^2c^{34})(3a^{16}b^{-29}c^0)$ for all values of a, b, and c where the expression is defined? **A** $\frac{18}{b^{58}}$ **B** $\frac{45}{b^{58}}$ **C** $\frac{45a^{16}c^{34}}{b^{27}}$ [correct answer] **D** $\frac{18a^{16}c^{34}}{b^{27}}$	A.11(B)	2021/ Question#35	5

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7	The table represents some points on the graph of linear function f. x | 03 | 2 | 5 | 11 Volume of Coral (cubic centimeters) | -130 | 0 | 78 | 234 Which function represents f? **A** $f(x) =- 26(2x - 1)$ **B** $f(x) =- 2(26x - 1)$ **C** $f(x) = 13(x - 2)$ **D** $f(x) = 26(x - 2)$ [correct answer]	A.2(C)	2021/ Question#44	4
8	A lifeguard earns $320 per week for working 40 hours plus $12 per hour worked over 40 hours. A lifeguard can work a maximum of 60 hours per week. Which graph best represents the lifeguard's weekly earnings in dollars for working *h* hours over 40? **A** 	A.3(C)	2017/ Question#12	3

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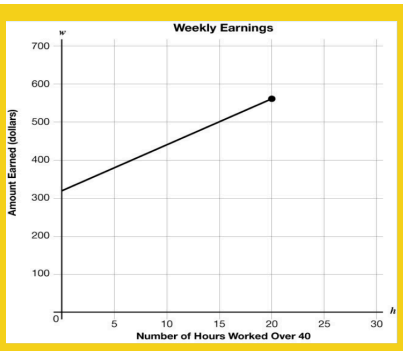
	B  **C**  **D**  [correct answer]			

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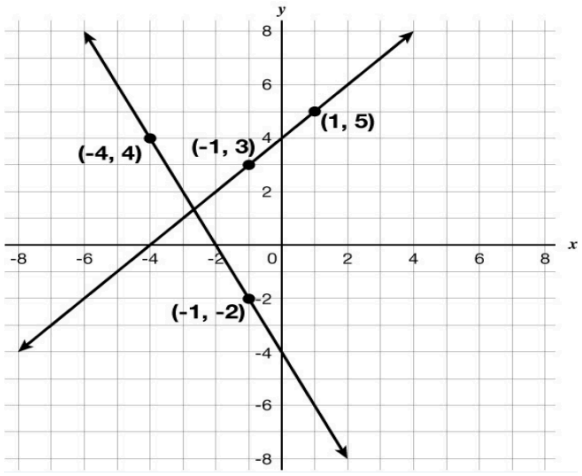
9	A system of equations is graphed on the grid.  Which system of equations does the graph represent? **A** $y = x + 4$[correct answer] $y = -2x - 4$ **B** $y = -x - 4$ $y = 2x - 2$ **C** $y = x - 4$ $y = -2x - 2$ **D** $y = -x + 4$ $y = 2x - 4$	A.2(I)	2019/ Question#30	2

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10	What is the equation in slope-intercept form of the line that crosses the x-axis at 36 and is perpendicular to the line represented by $y = -\frac{4}{9}x + 5$? **A** $y = \frac{4}{9}x - 16$ **B** $y = \frac{9}{4}x + 81$ **C** $y = \frac{4}{9}x + 16$ **D** $y = \frac{9}{4}x - 81$ [correct answer]	A.2(F)	2019/ Question#10	1