Item #	Rationales	
6	Option G is correct	The correct answer was obtained by using the formula <i>Force</i> = <i>mass</i> × <i>acceleration</i> to determine the net force acting on the vehicle. 1,100 kilograms $\times -1.2 \text{ m/s}^2 = 1,300 \text{ N}$
	Option F is incorrect	This answer was obtained by adding instead of multiplying. <i>Force= mass+ acceleration</i> was used instead of <i>Force= mass_acceleration</i> .
	Option H is incorrect	This answer was obtained by dividing instead of multiplying. <i>Force= mass / acceleration</i> was used instead of <i>Force = mass × acceleration</i> .
	Option J is incorrect	

Item #	Rationales	
12	Option H is correct	Converging plates can lead to uplift and the steep slopes of a mountain range.
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Item #		
18	Option J is correct	
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Item #	Rationales	
38	Option F is correct	Larger grains were preferred to provide more food per plant for humans.
	Option G is incorrect	Taller stems to block sunlight would not benefit farmers by providing more food.
	Option H is incorrect	Larger flowers were not preferred over larger grains. Farmers did not sell flowers.
	Option J is incorrect	Thinner stems were not preferred for human consumption.
39	Option C is correct	Energy is transferred from the level below to the level above.
	Option A is incorrect	Energy is transferred from the level below to the level above.
	Option B is incorrect	Energy lost at any level does not continue to flow through the energy pyramid.