Different rates of reactions

- 1. Indicate whether each of the following would increase or decrease the rate of reaction.
 - (a) adding heat _____
 - (b) removing heat _____
 - (c) adding a catalyst _____
 - (d) diluting a solution _____
 - (e) removing an enzyme _____
 - (f) lowering the temperature _____
 - (g) increasing the temperature _____
 - (h) decreasing the surface area _____
 - (i) increasing the concentration of a solution $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}{2}$
 - (j) breaking a reactant down into smaller pieces
- 2. Identify which situation would have a higher reaction rate. Then state the factor that affected the rate of reaction in each situation.

	Situation X	Situation Y	Situation with a higher reaction rate (X or Y)	Factor affecting the rate of reaction
(a)	1 g of sugar (cubes)	1 g of sugar (grains)		

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(b)	50 °C	0 °C	
(c)	low number of particles =	high number of particles = more collisions	
	few collisions		
	9 23 9		
	0 69 0		
(d)	enzyme added	no enzyme added	
(e)	twigs	logs	