Section 16.1 continued

For each item in Column A, write the letter of the matching item in Column B.

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>10. Expresses the average rate of loss of a reactant</td>
<td>a. average reaction rate</td>
</tr>
<tr>
<td>11. Expressed as Δquantity/Δtime</td>
<td>b. positive number</td>
</tr>
<tr>
<td>12. Expresses the average rate of formation of a product</td>
<td>c. negative number</td>
</tr>
</tbody>
</table>

Use the figure below to answer the following questions.

A

Collision → Rebound
Incorrect orientation

B

Collision → Activated complex → Products
Correct orientation

C

Collision → Rebound
Correct orientation
Insufficient energy

13. What molecules collided in collisions A, B, and C?

14. What do the arrows represent?

15. Which collision(s) formed products? What were the products?

16. Explain why the other collision(s) did not form products.

17. Which collision(s) formed an activated complex? Identify the activated complex.