



Determine which choice best shows the associative property of multiplication.

**Answers**

- |  |  |
|--|--|
| <p>1) A. <math>9 \times 7 = 7 \times 9</math><br/>         B. <math>(9 \times 7) + (9 \times 10) = 9 \times (7 + 10)</math><br/>         C. <math>9 \times 1 = 9</math><br/>         D. <math>(9 \times 7) \times 10 = 9 \times (7 \times 10)</math></p> | <p>2) A. <math>(8 \times 0) \times 5 = 8 \times (0 \times 5)</math><br/>         B. <math>8 \times 1 = 8</math><br/>         C. <math>(8 \times 0) + (8 \times 5) = 8 \times (0 + 5)</math><br/>         D. <math>8 \times 0 = 0 \times 8</math></p>           |
| <p>3) A. <math>7 \times 1 = 7</math><br/>         B. <math>7 \times 5 = 5 \times 7</math><br/>         C. <math>(7 \times 5) \times 3 = 7 \times (5 \times 3)</math><br/>         D. <math>(7 \times 5) + (7 \times 3) = 7 \times (5 + 3)</math></p>     | <p>4) A. <math>7 \times (0 \times 1) = (7 \times 0) \times 1</math><br/>         B. <math>7 \times (0 + 1) = (7 \times 0) + (7 \times 1)</math><br/>         C. <math>1 \times 7 = 7</math><br/>         D. <math>7 \times 0 = 0 \times 7</math></p>           |
| <p>5) A. <math>5 \times (0 \times 4) = (5 \times 0) \times 4</math><br/>         B. <math>5 \times 0 = 0 \times 5</math><br/>         C. <math>1 \times 5 = 5</math><br/>         D. <math>5 \times (0 + 4) = (5 \times 0) + (5 \times 4)</math></p>     | <p>6) A. <math>1 \times 8 = 8 \times 1</math><br/>         B. <math>1 \times 1 = 1</math><br/>         C. <math>(1 \times 8) + (1 \times 2) = 1 \times (8 + 2)</math><br/>         D. <math>(1 \times 8) \times 2 = 1 \times (8 \times 2)</math></p>           |
| <p>7) A. <math>1 \times 4 = 4</math><br/>         B. <math>4 \times 9 = 9 \times 4</math><br/>         C. <math>4 \times (9 \times 3) = (4 \times 9) \times 3</math><br/>         D. <math>4 \times (9 + 3) = (4 \times 9) + (4 \times 3)</math></p>     | <p>8) A. <math>(6 \times 1) \times 9 = 6 \times (1 \times 9)</math><br/>         B. <math>6 \times 1 = 1 \times 6</math><br/>         C. <math>(6 \times 1) + (6 \times 9) = 6 \times (1 + 9)</math><br/>         D. <math>6 \times 1 = 6</math></p>           |
| <p>9) A. <math>1 \times 7 = 7</math><br/>         B. <math>7 \times 8 = 8 \times 7</math><br/>         C. <math>7 \times (8 \times 5) = (7 \times 8) \times 5</math><br/>         D. <math>7 \times (8 + 5) = (7 \times 8) + (7 \times 5)</math></p>     | <p>10) A. <math>10 \times 4 = 4 \times 10</math><br/>         B. <math>1 \times 10 = 10</math><br/>         C. <math>10 \times (4 \times 8) = (10 \times 4) \times 8</math><br/>         D. <math>10 \times (4 + 8) = (10 \times 4) + (10 \times 8)</math></p> |
| <p>11) A. <math>9 \times 2 = 2 \times 9</math><br/>         B. <math>1 \times 9 = 9</math><br/>         C. <math>9 \times (2 \times 5) = (9 \times 2) \times 5</math><br/>         D. <math>9 \times (2 + 5) = (9 \times 2) + (9 \times 5)</math></p>    | <p>12) A. <math>3 \times (1 + 10) = (3 \times 1) + (3 \times 10)</math><br/>         B. <math>3 \times 1 = 1 \times 3</math><br/>         C. <math>1 \times 3 = 3</math><br/>         D. <math>3 \times (1 \times 10) = (3 \times 1) \times 10</math></p>      |

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2. \_\_\_\_\_
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9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_



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Answers

- 1) A.  $9 \times 7 = 7 \times 9$   
 B.  $(9 \times 7) + (9 \times 10) = 9 \times (7 + 10)$   
 C.  $9 \times 1 = 9$   
 D.  $(9 \times 7) \times 10 = 9 \times (7 \times 10)$
- 2) A.  $(8 \times 0) \times 5 = 8 \times (0 \times 5)$   
 B.  $8 \times 1 = 8$   
 C.  $(8 \times 0) + (8 \times 5) = 8 \times (0 + 5)$   
 D.  $8 \times 0 = 0 \times 8$
- 3) A.  $7 \times 1 = 7$   
 B.  $7 \times 5 = 5 \times 7$   
 C.  $(7 \times 5) \times 3 = 7 \times (5 \times 3)$   
 D.  $(7 \times 5) + (7 \times 3) = 7 \times (5 + 3)$
- 4) A.  $7 \times (0 \times 1) = (7 \times 0) \times 1$   
 B.  $7 \times (0 + 1) = (7 \times 0) + (7 \times 1)$   
 C.  $1 \times 7 = 7$   
 D.  $7 \times 0 = 0 \times 7$
- 5) A.  $5 \times (0 \times 4) = (5 \times 0) \times 4$   
 B.  $5 \times 0 = 0 \times 5$   
 C.  $1 \times 5 = 5$   
 D.  $5 \times (0 + 4) = (5 \times 0) + (5 \times 4)$
- 6) A.  $1 \times 8 = 8 \times 1$   
 B.  $1 \times 1 = 1$   
 C.  $(1 \times 8) + (1 \times 2) = 1 \times (8 + 2)$   
 D.  $(1 \times 8) \times 2 = 1 \times (8 \times 2)$
- 7) A.  $1 \times 4 = 4$   
 B.  $4 \times 9 = 9 \times 4$   
 C.  $4 \times (9 \times 3) = (4 \times 9) \times 3$   
 D.  $4 \times (9 + 3) = (4 \times 9) + (4 \times 3)$
- 8) A.  $(6 \times 1) \times 9 = 6 \times (1 \times 9)$   
 B.  $6 \times 1 = 1 \times 6$   
 C.  $(6 \times 1) + (6 \times 9) = 6 \times (1 + 9)$   
 D.  $6 \times 1 = 6$
- 9) A.  $1 \times 7 = 7$   
 B.  $7 \times 8 = 8 \times 7$   
 C.  $7 \times (8 \times 5) = (7 \times 8) \times 5$   
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- 10) A.  $10 \times 4 = 4 \times 10$   
 B.  $1 \times 10 = 10$   
 C.  $10 \times (4 \times 8) = (10 \times 4) \times 8$   
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- 11) A.  $9 \times 2 = 2 \times 9$   
 B.  $1 \times 9 = 9$   
 C.  $9 \times (2 \times 5) = (9 \times 2) \times 5$   
 D.  $9 \times (2 + 5) = (9 \times 2) + (9 \times 5)$
- 12) A.  $3 \times (1 + 10) = (3 \times 1) + (3 \times 10)$   
 B.  $3 \times 1 = 1 \times 3$   
 C.  $1 \times 3 = 3$   
 D.  $3 \times (1 \times 10) = (3 \times 1) \times 10$

1.   **D**
2.   **A**
3.   **C**
4.   **A**
5.   **A**
6.   **D**
7.   **C**
8.   **A**
9.   **C**
10.   **C**
11.   **C**
12.   **D**