

# Why Did the Horse Eat With Its Mouth Open?












Write the prime factorization for each number. Find your answer in the adjacent answer list. Write the letter of the answer in each box containing the number of the exercise.

<p>① 12</p> $\begin{array}{c} \diagup \quad \diagdown \\ 12 \end{array}$	<p>② 20</p> $\begin{array}{c} \diagup \quad \diagdown \\ 20 \end{array}$	<p>③ 35</p> $\begin{array}{c} \diagup \quad \diagdown \\ 35 \end{array}$	<p>Ⓢ <math>2 \times 3 \times 5</math></p> <p>Ⓑ <math>2^2 \times 3</math></p> <p>Ⓔ <math>5 \times 7</math></p> <p>Ⓖ <math>2^2 \times 7</math></p> <p>Ⓕ <math>2^2 \times 5</math></p>																	
<p>④ 36</p> $\begin{array}{c} \diagup \quad \diagdown \\ 36 \end{array}$	<p>⑤ 75</p> $\begin{array}{c} \diagup \quad \diagdown \\ 75 \end{array}$	<p>⑥ 99</p> $\begin{array}{c} \diagup \quad \diagdown \\ 99 \end{array}$	<p>Ⓓ <math>3 \times 5^2</math></p> <p>Ⓙ <math>2 \times 3^2</math></p> <p>Ⓜ <math>3^2 \times 11</math></p> <p>Ⓡ <math>2^2 \times 3^2</math></p> <p>Ⓕ <math>2 \times 5 \times 11</math></p>																	
<p>⑦ 60</p> $\begin{array}{c} \diagup \quad \diagdown \\ 60 \end{array}$	<p>⑧ 56</p> $\begin{array}{c} \diagup \quad \diagdown \\ 56 \end{array}$	<p>⑨ 26</p> $\begin{array}{c} \diagup \quad \diagdown \\ 26 \end{array}$	<p>Ⓚ <math>23 \times 5</math></p> <p>Ⓢ <math>2 \times 13</math></p> <p>Ⓒ <math>2 \times 5 \times 7</math></p> <p>Ⓛ <math>2^3 \times 7</math></p> <p>Ⓢ <math>2^2 \times 3 \times 5</math></p>																	
<p>⑩ 81</p> $\begin{array}{c} \diagup \quad \diagdown \\ 81 \end{array}$	<p>⑪ 100</p> $\begin{array}{c} \diagup \quad \diagdown \\ 100 \end{array}$	<p>⑫ 90</p> $\begin{array}{c} \diagup \quad \diagdown \\ 90 \end{array}$	<p>Ⓐ <math>2^2 \times 5^2</math></p> <p>Ⓞ <math>2 \times 3^3</math></p> <p>Ⓝ <math>3^4</math></p> <p>Ⓣ <math>2 \times 3^2 \times 5</math></p> <p>Ⓟ <math>2^3 \times 3 \times 5</math></p>																	
9	12	2	11	5	1	11	5	7	12	11	1	8	3	6	11	10	10	3	4	7

# Why Did the Dog Have to Go to Court?

Write the prime factorization for each number. Find your answer in the answer list.  
Write the letter of the answer in each box containing the number of the exercise.

<p>① 30</p> 	<p>② 42</p> 	<p>③ 18</p> 	<p>Answers 1 – 3:</p> <p>Ⓨ <math>2^2 \times 5</math></p> <p>Ⓐ <math>2 \times 3 \times 5</math></p> <p>Ⓣ <math>2 \times 3^2</math></p> <p>Ⓒ <math>3^2 \times 5</math></p> <p>Ⓘ <math>2 \times 3 \times 7</math></p>
<p>④ 50</p> 	<p>⑤ 24</p> 	<p>⑥ 45</p> 	<p>Answers 4 – 6:</p> <p>Ⓞ <math>3^2 \times 5</math></p> <p>Ⓜ <math>2^2 \times 5</math></p> <p>Ⓝ <math>2 \times 5^2</math></p> <p>Ⓖ <math>2 \times 3 \times 5^2</math></p> <p>Ⓔ <math>2^3 \times 3</math></p>
<p>⑦ 84</p> 	<p>⑧ 66</p> 	<p>⑨ 80</p> 	<p>Answers 7 – 9:</p> <p>Ⓟ <math>2^3 \times 11</math></p> <p>Ⓘ <math>2^2 \times 3 \times 7</math></p> <p>Ⓣ <math>2 \times 3 \times 11</math></p> <p>Ⓐ <math>2 \times 3^2 \times 7</math></p> <p>Ⓒ <math>2^4 \times 5</math></p>

- ⑩ 63  
⑪ 48  
⑫ 39  
⑬ 88  
⑭ 144

Answers 10 – 14:

Ⓢ $2^3 \times 5$	Ⓘ $3^2 \times 7$
Ⓖ $3 \times 13$	Ⓚ $2^4 \times 3^2$
Ⓝ $3^2 \times 11$	Ⓣ $2^3 \times 11$
Ⓐ $2^4 \times 3$	Ⓔ $2 \times 3 \times 7$

- ⑮ 120  
⑯ 98  
⑰ 64  
⑱ 650  
⑲ 1,000

Answers 15 – 19:

Ⓣ $2 \times 7^2$	Ⓖ $2^3 \times 3 \times 5$
Ⓝ $2^4 \times 3$	Ⓑ $2^3 \times 5^3$
Ⓡ $2^6$	Ⓢ $2 \times 3^2 \times 7$
Ⓕ $3^4 \times 5$	Ⓚ $2 \times 5^2 \times 13$

10	3	15	6	8	11	19	1	17	14	7	4	12	16	2	9	18	5	13
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