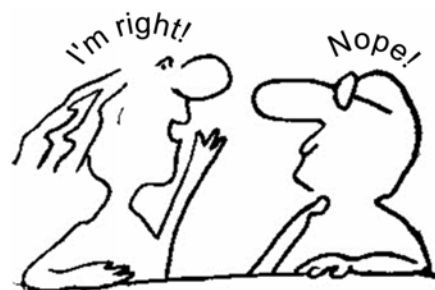


Pair Share with a Twist

Exponentials and Logarithms



Directions: You and your partner will work together to solve these problems. You will solve the problems on one side, and your partner will solve the problems on the other side. When you are done, your answers will match - but the answers are NOT in the same order. Round to the **nearest hundredth** unless otherwise stated.

Name _____ **ANSWERS** _____

Name _____

<p>1. If $8 = 2\ln e^x$, find the value of x. 4</p> <p style="text-align: center;">16</p>	<p>11. If $\frac{1}{2^x} = \frac{1}{32}$, find the value of x. 5</p> <p style="text-align: center;">8</p>
<p>2. Find the value of $\log 32$. 1.51</p> <p style="text-align: center;">15</p>	<p>12. If $\ln(5x - 4) = \ln(3x + 8)$, find the value of x. 6</p> <p style="text-align: center;">9</p>
<p>3. Find the value of x if $2^{-2x} = 27$. -2.38</p> <p style="text-align: center;">17</p>	<p>13. What is the value of $\log_2 4^{-3}$? -6</p> <p style="text-align: center;">7</p>
<p>4. Solve for x: $\ln x - \ln 4 = 1$ 10.87</p> <p style="text-align: center;">18</p>	<p>14. Solve for x: $4 + 2\ln x = 5$ 1.65</p> <p style="text-align: center;">10</p>
<p>5. If $5(2^{2x}) = 320$, find the value of x? 3</p> <p style="text-align: center;">20</p>	<p>15. If $3(10^x) = 96$, find the value of x. 1.51</p> <p style="text-align: center;">2</p>

<p>6. Find the exact value of $\log_7 \sqrt[4]{49}$. 0.5</p> <p>19</p>	<p>16. If $e^x = 54.6$, find x to the nearest integer. 4</p> <p>1</p>
<p>7. If $2^x = \frac{1}{64}$, find the value of x. -6</p> <p>13</p>	<p>17. Find the value of $-\log_4 27$. -2.38</p> <p>3</p>
<p>8. What is the largest integer in the domain of $y = \ln(6 - x)$? 5</p> <p>11</p>	<p>18. If $a = e^{2.5} - 48.2\%$ of e, find the value of a. 10.87</p> <p>4</p>
<p>9. If $4(3^x) = 2916$, find x. 6</p> <p>12</p>	<p>19. Solve for x: $5^{4x-1} = 25^{3x-1}$ 0.5</p> <p>6</p>
<p>10. If $x = \frac{1}{4}$, find the value of $4xe^{2x}$. 1.65</p> <p>14</p>	<p>20. What is the largest integer that is less than $\log_3 30$? 3</p> <p>5</p>