



## Exponents - Power Law - Which is Larger With Shared Factor in Exponent

<p>1</p> <p>Which is larger?</p> <p><math>3^{120}</math> or <math>2^{200}</math></p> <table border="1"> <tr> <td>A</td> <td>B</td> </tr> <tr> <td><math>3^{120}</math></td> <td><math>2^{200}</math></td> </tr> </table>	A	B	$3^{120}$	$2^{200}$	<p>2</p> <p>Which is larger?</p> <p><math>2^{90}</math> or <math>3^{60}</math></p> <table border="1"> <tr> <td>A</td> <td>B</td> </tr> <tr> <td><math>3^{60}</math></td> <td><math>2^{90}</math></td> </tr> </table>	A	B	$3^{60}$	$2^{90}$
A	B								
$3^{120}$	$2^{200}$								
A	B								
$3^{60}$	$2^{90}$								
<p>3</p> <p>Which is larger?</p> <p><math>5^{80}</math> or <math>3^{120}</math></p> <table border="1"> <tr> <td>A</td> <td>B</td> </tr> <tr> <td><math>5^{80}</math></td> <td><math>3^{120}</math></td> </tr> </table>	A	B	$5^{80}$	$3^{120}$	<p>4</p> <p>Which is larger?</p> <p><math>3^{180}</math> or <math>5^{120}</math></p> <table border="1"> <tr> <td>A</td> <td>B</td> </tr> <tr> <td><math>5^{120}</math></td> <td><math>3^{180}</math></td> </tr> </table>	A	B	$5^{120}$	$3^{180}$
A	B								
$5^{80}$	$3^{120}$								
A	B								
$5^{120}$	$3^{180}$								
<p>5</p> <p>Which is larger?</p> <p><math>2^{180}</math> or <math>3^{120}</math></p> <table border="1"> <tr> <td>A</td> <td>B</td> </tr> <tr> <td><math>3^{120}</math></td> <td><math>2^{180}</math></td> </tr> </table>	A	B	$3^{120}$	$2^{180}$	<p>6</p> <p>Which is larger?</p> <p><math>11^{44}</math> or <math>5^{66}</math></p> <table border="1"> <tr> <td>A</td> <td>B</td> </tr> <tr> <td><math>5^{66}</math></td> <td><math>11^{44}</math></td> </tr> </table>	A	B	$5^{66}$	$11^{44}$
A	B								
$3^{120}$	$2^{180}$								
A	B								
$5^{66}$	$11^{44}$								
<p>7</p> <p>Which is larger?</p> <p><math>5^{120}</math> or <math>3^{180}</math></p> <table border="1"> <tr> <td>A</td> <td>B</td> </tr> <tr> <td><math>5^{120}</math></td> <td><math>3^{180}</math></td> </tr> </table>	A	B	$5^{120}$	$3^{180}$	<p>8</p> <p>Which is larger?</p> <p><math>11^{100}</math> or <math>2^{350}</math></p> <table border="1"> <tr> <td>A</td> <td>B</td> </tr> <tr> <td><math>11^{100}</math></td> <td><math>2^{350}</math></td> </tr> </table>	A	B	$11^{100}$	$2^{350}$
A	B								
$5^{120}$	$3^{180}$								
A	B								
$11^{100}$	$2^{350}$								