

Pre-Algebra (Mathskills)

Pre-Algebra Concepts	Scientific Notation												
Review Exercises													
1. $\sqrt{100}$	2. $5^3 =$												
4. $-3 \times -5 \times -6 =$	3. $\frac{\sqrt{36} \times \sqrt{49}}{2} =$												
5. $-2\frac{1}{2} + -\frac{1}{2} =$	6. $-\frac{1}{3} + -\frac{1}{2} =$												
<div style="background-color: #f2f2f2; padding: 5px; margin-bottom: 5px;">Helpful Hints</div> <p style="font-size: small; margin: 0;">Scientific notation is used to express very large and very small numbers. A number in scientific notation is expressed as the product of two factors. The first factor is a number between 1 and 10 and the second factor is a power of 10 as in the examples 2.346×10^5 and 3.976×10^{-7}.</p> <p style="font-size: small; margin: 0;">Example for a large number: Change 157,000,000,000 to scientific notation. Move the decimal between the 1 and the 5. Since the decimal has moved 11 places to the left, the answer is 1.57×10^{11}.</p> <p style="font-size: small; margin: 0;">Example for a small number: Change .000000468 to scientific notation. Move the decimal between the 4 and the 6. Since the decimal has moved eight places to the right, the answer is 4.68×10^{-8}.</p>	<p>Change the following numbers to scientific notation.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 2px;">S1. 2,360,000,000</td> <td style="width: 33%; padding: 2px;">S2. .000000149</td> <td style="width: 33%; padding: 2px;">I. 653,000,000,000</td> </tr> <tr> <td style="padding: 2px;">2. 159,700</td> <td style="padding: 2px;">3. 106,000,000</td> <td style="padding: 2px;">4. .000007216</td> </tr> <tr> <td style="padding: 2px;">5. 1,096,000,000</td> <td style="padding: 2px;">6. .001963</td> <td style="padding: 2px;">7. .00000000016</td> </tr> <tr> <td style="padding: 2px;">8. .0000000008</td> <td style="padding: 2px;">9. 7,000,000,000,000</td> <td style="padding: 2px;">10. .0000001287</td> </tr> </table>	S1. 2,360,000,000	S2. .000000149	I. 653,000,000,000	2. 159,700	3. 106,000,000	4. .000007216	5. 1,096,000,000	6. .001963	7. .00000000016	8. .0000000008	9. 7,000,000,000,000	10. .0000001287
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<div style="background-color: #f2f2f2; padding: 5px; margin-bottom: 5px;">Problem Solving</div> <p style="font-size: small; margin: 0;">Light travels at 186,000 miles per second. Write this speed in scientific notation.</p>	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ <p style="text-align: center; margin: 0;">Score _____</p>												
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