

Colour by Number - Negative & Zero Exponent Laws

Task: Solve each problem to determine what colour to fill in each section of the diagram.

<p style="text-align: center;">1. 2^{-2}</p> <p>Brown: -4</p> <p>Yellow: $-\frac{1}{4}$</p> <p>Light blue: $\frac{1}{4}$</p>	<p style="text-align: center;">2. $\left(\frac{2}{3}\right)^{-3}$</p> <p>Red: $\frac{27}{8}$</p> <p>Dark green: $-\frac{27}{8}$</p> <p>Dark purple: $-\frac{8}{27}$</p>	<p style="text-align: center;">3. x^{-5}</p> <p>Orange: $-x^5$</p> <p>Black: $\frac{1}{x^5}$</p> <p>Pink: $-\frac{1}{x^5}$</p>
<p style="text-align: center;">4. $\left(\frac{x}{y}\right)^{-2}$</p> <p>Grey: $-\frac{x^2}{y^2}$</p> <p>White: $-\frac{y^2}{x^2}$</p> <p>Light green: $\frac{y^2}{x^2}$</p>	<p style="text-align: center;">5. $\frac{1}{0.3^{-2}}$</p> <p>Yellow: 0.09</p> <p>Beige: $-\frac{1}{0.09}$</p> <p>Turquoise: -0.09</p>	<p style="text-align: center;">6. 5^0</p> <p>Burgundy: 5</p> <p>Orange: 0</p> <p>Grey: 1</p>
<p style="text-align: center;">7. -5^0</p> <p>Brown: 0</p> <p>Dark blue: -1</p> <p>Yellow: 1</p>	<p style="text-align: center;">8. $-(-5)^0$</p> <p>Lavender: 0</p> <p>Orange: -1</p> <p>White: 1</p>	<p style="text-align: center;">9. $(xy^2)^0$</p> <p>Pink: 1</p> <p>Lime green: 0</p> <p>Black: x</p>

