

Name: KEY BLOCK _____



Math 10 100% Quiz

Column 1.	Column 2. <i>Complete this column if you make an error in column 1.</i>	Column 3 <i>Complete this column if you make an error in column 2.</i>
1. Evaluate: $(-4x)^0$ <div style="text-align: center; font-size: 2em;">1</div>	Evaluate: $-4x^0$ <div style="text-align: center; font-size: 2em;">-1</div>	Evaluate: $-(4x)^0$ <div style="text-align: center; font-size: 2em;">-1</div>
2. Simplify: -3^{-2} <div style="text-align: center; font-size: 2em;">$\frac{1}{-9}$</div>	Simplify: $(-3)^{-2}$ <div style="text-align: center; font-size: 2em;">$\frac{1}{9}$</div>	Simplify: -2^{-3} <div style="text-align: center; font-size: 2em;">$\frac{1}{-8}$</div>
3. Write in radical form: $5^{\frac{3}{4}}$ <div style="text-align: center; font-size: 2em;">$\sqrt[4]{5^3}$</div>	Write in radical form: $3^{\frac{5}{4}}$ <div style="text-align: center; font-size: 2em;">$\sqrt[4]{3^5}$</div>	Write in radical form: $4^{\frac{5}{3}}$ <div style="text-align: center; font-size: 2em;">$\sqrt[3]{4^5}$</div>

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<p>4. Write in exponential form: $\sqrt[4]{7^2}$</p> $7^{\frac{2}{4}} = 7^{\frac{1}{2}}$	<p>Write in exponential form: $\sqrt[3]{2^4}$</p> $2^{\frac{4}{3}}$	<p>Write in exponential form: $\sqrt{4^7}$</p> $4^{7/2}$
<p>5. Simplify, no exponents $25^{\frac{3}{2}}$</p> $\sqrt{25^3} = 125$ $= 5^3$	<p>Simplify, no exponents $64^{\frac{3}{4}}$</p> <p>oops not doable</p> $=$ $=$	<p>Simplify, no exponents $32^{\frac{3}{5}}$</p> $\sqrt[5]{32^3}$ 2^3 8
<p>6. Simplify: $(\frac{1}{16})^{\frac{1}{2}}$</p> $\sqrt{16} = 4$	<p>Simplify: $(\frac{9}{16})^{\frac{3}{4}}$</p> $4\sqrt[4]{\frac{16}{9}}^3$ <p>no further</p>	<p>Simplify: $(\frac{27}{8})^{\frac{2}{3}}$</p> $(\frac{8}{27})^{\frac{2}{3}}$ $\sqrt[3]{(\frac{8}{27})^2}$ $(\frac{2}{3})^2 = \frac{4}{9}$

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7. Simplify, no negative exponents:
 $(-5x^2y^{-3})(2x^4y)$

Simplify, no negative exponents:
 $(-3x^6y^{-2})(-4x^{-8}y^5z)$

Simplify, no negative exponents:
 $(5x^{-12}y^{-3})(-2x^{-4}yz)$

$$-10x^6y^{-2}$$

$$\frac{-10x^6}{y^2}$$

$$+12x^{-2}y^3z$$

$$\frac{12y^3z}{x^2}$$

$$-10x^{-16}y^{-2}z$$

$$\frac{-10z}{x^{16}y^2}$$

8. Simplify, no negative exponents:
 $(-5x^2y^{-3})^{-2}(2x^4y)$

Simplify, no negative exponents:
 $(-5x^2y^{-3})(2x^4y)^{-3}$

Simplify, no negative exponents:
 $(-5x^2y^{-3})^2(2x^4y)^3$

$$\frac{1}{25x^4y^{-6}} \cdot 2x^4y$$
~~$$\frac{1}{25x^4y^{-6}} \cdot 2x^4y$$~~

$$\frac{2y^7}{25}$$

$$\frac{(-5x^2y^{-3})}{(2x^4y)^3}$$

$$\frac{-5x^2y^{-3}}{8x^{12}y^3}$$

$$\frac{-5}{8x^{10}y^6}$$

$$(25x^4y^{-6})(8x^{12}y^3)$$

$$200x^{16}y^{-3}$$

$$\frac{200x^{16}}{y^3}$$

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9. Simplify, no negative exponents:

$$\frac{15a^4b^2}{-30a^{-2}}$$

$$\frac{1a^6b^2}{-2}$$

Simplify, no negative exponents:

$$\frac{25a^{-4}b^5}{-30a^{-3}a^{-2}}$$

$$\frac{-5a^1b^5}{6}$$

Simplify, no negative exponents:

$$\frac{30a^4b^2c}{-25a^{-2}c^{-3}}$$

$$\frac{6a^6b^2c^4}{-5}$$

10. Simplify, no negative exponents:

$$\left(\frac{6a^4b^2}{-3a^{-2}}\right)^{-2}$$

$$\left(\frac{-3a^{-2}}{6a^4b^2}\right)^2$$

$$\frac{9a^{-4}}{36a^8b^4}$$

$$\frac{9}{36a^{12}b^4} = \frac{1}{4a^{12}b^4}$$

Simplify, no negative exponents:

$$\left(\frac{5a^2b^5}{2a^3a^{-2}}\right)^{-3}$$

$$\left(\frac{2a^3a^{-2}}{5a^2b^5}\right)^3$$

$$\frac{8a^9a^{-6}}{125a^6b^{15}}$$

$$\frac{8a^3}{125a^6b^{15}}$$

$$\frac{8}{125a^3b^{15}}$$

Simplify, no negative exponents:

$$\left(\frac{2a^{-4}b^5}{-3a^{-3}a^{-2}}\right)^{-2}$$

$$\left(\frac{-3a^{-3}a^{-2}}{2a^{-4}b^5}\right)^2$$

$$\frac{9a^{-6}a^{-4}}{4a^{-8}b^{10}}$$

$$\frac{9a^{-10}}{4a^{-8}b^{10}}$$

$$\frac{9a^{-2}}{4b^{10}}$$

$$\frac{9}{4a^2b^{10}}$$