

Multiplying and Dividing Rational Expressions

Directions:

Perform the indicated operations and reduce to lowest terms.

Even though the "indicated operations" are multiplication and division, what we need to do is **FACTOR** and **REDUCE**.

$$1. \frac{10m^6 p^7}{9x^3 y^2} \cdot 18x^5 y^3 \div \frac{4x^2 y}{3m^2 p}$$

$$2. \frac{4-x}{6x+9} \div \frac{5x-20}{2xz+3z}$$

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|---|
| <ol style="list-style-type: none">1. Factor2. Reduce |
|---|

$$3. \frac{2x^2 - x - 15}{2x^2 + 9x + 10} \cdot \frac{x^2 - 3x - 10}{21x - 7x^2}$$