

Ejercicios de división de

08/10/21

Fracciones algebraicas.

$$1. \frac{9a}{8b} \div \frac{3a}{4b} = \frac{36 \overset{b=3}{\cancel{a}} \overset{b=2}{\cancel{b}}}{24 \overset{b=2}{\cancel{a}} \overset{b=3}{\cancel{b}}} = \frac{18}{12} = \frac{3}{2}$$

$$2. \frac{4wz}{6xy^2} \div \frac{8w^2z^2}{9x^2y} = \frac{36 \cancel{w} \cancel{x}^2 y z}{48 \cancel{w} \cancel{x}^2 y^2 z^2} = \frac{18x}{24yz} = \frac{3x}{4yz}$$

$$3. \frac{25x^3y^4}{36m^4n} \div \frac{10x^2y^3}{18m^2n} = \frac{450 \cancel{m}^2 \cancel{x}^3 y^4}{360 \cancel{m}^4 \cancel{x}^2 y^3} = \frac{225xy}{180m^2} = \frac{45xy}{36m^2} = \frac{5xy}{4m^2}$$

$$4. \frac{3x^2y}{2} \div \frac{6x^2}{4} = \frac{12x^2y}{12x^2} = \frac{6y}{6} = \frac{3y}{3}$$

$$5. \frac{3m}{8n^2} \div \frac{9m}{16n^2} = \frac{48 \cancel{m} n^2}{72 \cancel{m} n^2} = \frac{24}{36} = \frac{12}{18} = \frac{6}{9} = \frac{2}{3}$$

$$6. \frac{6a^2b^3}{5cd} \div \frac{3a^4c^2}{10b^2d^2} = \frac{60a^2b^5d^2}{15ac^3d}$$

$$\frac{12ab^5d}{3c^3}$$

$$7. \frac{2ab}{1} \div \frac{a}{b} = \frac{a}{2ab^2} = 2b^2$$

$$8. \frac{6xy}{5y^2} \div \frac{3x}{10y} = \frac{60xy^2}{15xy^2} = \frac{12}{3}$$