

Fractions with Variables & Exponents- Division

(Some Negatives)

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To divide by a fraction you need:

- All fractions
- Flip the fraction by which you are dividing
(*Take the reciprocal of the divisor.*)
- Change division to **multiplication**, and **now** you can:
- Reduce if possible
- Multiply straight across

$$1) \frac{5}{6x} \div \frac{3}{10x^2}$$

$$3) \frac{9x}{10y^2} \div \frac{27x^3}{4y^3}$$

$$2) 20c^3 \div \frac{4c}{b}$$

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

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$$5) -\frac{k^3}{t^2} \div \frac{k^3}{t}$$

$$7) -\frac{k^2}{3} \div -12k^2$$

$$6) \frac{12y^5}{13y^2} \div \frac{3y^8}{26y}$$

$$8) \frac{9r^3x^2}{20r^2x^7} \div \frac{36r^5x^3}{5rx^{10}}$$