

1. Divide a monomial by a monomial:

- a) $27x^2 \div 9x$
- b) $14m^2n^2 \div 7mn$
- c) $15a^4b^3 \div 12a^2b$
- d) $48m^2n^3 \div (-12mn^2)$
- e) $(-76a^2b^3c) \div (-19abc)$
- f) $24m^2n^4 \div 6m^2n$
- g) $27x^4 \div (-x^2)$
- h) $abz^2 \div (-az)$
- i) $(-35m^6) \div 7m^3$
- j) $m^3n^3 \div m^2n$

2. Simplify the division of the monomials:

- a) $(3a^3) \div (a^2)$
- b) $(4x^2y^2z^3) \div (xy^2z^2)$
- c) $(12p^6q^6r^6) \div (-3p^4q^2r)$
- d) $(-x^5z^9) \div (-xz^3)$
- e) $(15a^5b^7c^4) \div (5a^2b^2c^2)$
- f) $(-16m^3n^2) \div (-4mn^2)$
- g) $(-48x^9) \div (-8x^3)$
- h) $(35m^{11}) \div (7m^7)$
- i) $(63p^7q^8r^3) \div (9p^5q^5r^3)$
- j) $(7x^2yz) \div (-7x^2yz)$

3. Divide first monomial by the second monomial:

- a) $14ab : 2b$
- b) $45x^2z : 3z$
- c) $12ax^4y : 6x^4$
- d) $15u^7 : (-u^5)$
- e) $18mn^4 : 3mn$
- f) $56a^4b^3 : 7a^2b$
- g) $102a^3bc : 2bc$
- h) $(-80w^4yz) : 10w^3z$
- i) $48x^2y^4 : (-8xy)$
- j) $45a^3b^2 : 9ab^2$

4. Divide the following monomials and write the answer in simplest form:

- a) $(36ab) \div (-9b)$
- b) $(28p^4q^3) \div (-4p^3q)$
- c) $(16p^2ba^2) \div (-2ab)$
- d) $(-50a^3b^3) \div (-5a^3b)$
- e) $(-36a^4m^5n^6) \div (4a^3m^2n^2)$
- f) $(16m) \div (-4)$
- g) $(20a^2) \div (5a)$
- h) $(30y^2) \div (-10y^2)$
- i) $(14x^3y^3) \div (2x^2)$
- j) $(50m^2n^4) \div (2mn^2)$