

Student Name: _____

Score: _____

Division of polynomials by Monomials

1. $12x^4y^3z^2w \div 2xy^2 =$ _____

2. $(2a^3b^2 - 10ab^3c) \div 2ab^2 =$ _____

3. $(xy^3z - 4y^2z + 6xyz - y^3z) \div yz =$ _____

4. $12y^3z \div 6y^3 =$ _____

5. $(6ab^4c - 3a^3bc^2 + 2a^3bc - 4ab^3c) \div abc =$ _____

6. $(2r^2s^3t + 2s^3t^2 + rs^4t^3) \div s^2t =$ _____

7. $(2ax^3 + 4bx) \div 2x =$ _____

8. $(8uv + 10uv^2w - 8uvw) \div 2uv =$ _____

9. $(4xyz + 12xyz^2 - 6xy^2 + 12x^3yz) \div 2xy =$ _____

10. $(5ax^2 + 15a^3x) \div 5ax =$ _____

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Answers

$$1. 12x^4y^3z^2w \div 2xy^2 = 6x^3yz^2w$$

$$2. (2a^3b^2 - 10ab^3c) \div 2ab^2 = a^2 - 5bc$$

$$3. (xy^3z - 4y^2z + 6xyz - y^3z) \div yz = xy^2 - 4y + 6x - y^2$$

$$4. 12y^3z \div 6y^3 = 2z$$

$$5. (6ab^4c - 3a^3bc^2 + 2a^3bc - 4ab^3c) \div abc = 6b^3 - 3a^2c + 2a^2 - 4b^2$$

$$6. (2r^2s^3t + 2s^3t^2 + rs^4t^3) \div s^2t = 2r^2s + 2st + rs^2t^2$$

$$7. (2ax^3 + 4bx) \div 2x = ax^2 + 2b$$

$$8. (8uv + 10uv^2w - 8uvw) \div 2uv = 5vw - 4w + 4$$

$$9. (4xyz + 12xyz^2 - 6xy^2 + 12x^3yz) \div 2xy = 6z^2 + 2z - 3y + 6x^2z$$

$$10. (5ax^2 + 15a^3x) \div 5ax = x + 3a^2$$