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Multiplying monomials worksheet answers

Directions: Answer these questions regarding polynomial. Check every answer when it's finished. 1. Multiply: $(8a^3)(4a^2)$ 2. Multiply: $(-3x^2)^3$ 3. Multiply: $(-5m^2n)(-3m^4n^2)$ 4. Multiply: $(3x^2)(2x^3)(-4x^2)$ 5. Multiply: 6. Multiply: $-3b(3b^3 + 4b^2)$ 7. Find: $3xy(2x^2 + y^2 - 2)$ 8. Simplify: $(6x)(3x^2 - 4) - 5x$ 9. Pick: 10. What choice is NOT equivalent to: $5x(4x^2 - 2x)$ NOTE: Re-posting materials (partially or whole) from this site to the Internet is copyright infringement and is not considered fair use for educators. Please read the Terms of Use. Premium This pre-algebra monomial and polynomy worksheet will produce problems for multiplying monomials. You can select the number of problems, the types of expressions, as well as the parities of both the powers and constants. Click here for More Pre-Algebra - Monomial and Polynomium worksheets Practice the questions given in the worksheet about multiplying monomials (a monomial by a monomial). The questions are based on multiplication of two or more monomials. 1.1.1.1 Fill in the blanks: (i) $5 \times 4 =$ (ii) $7 \times 9 =$ (iii) $3 \times 6 =$ (iv) $6 \times 8 =$ (v) $2 \times 7 =$ (vi) $9 \times 12 =$ (vii) $3 \times 7 =$ (viii) $8 \times 1 =$ (ix) $9 \times 0 =$ (x) $11 \times 4 =$ and $5a \times 4a =$ $7a^2 \times 9a^3 =$ $3a \times 6b =$ $6am \times 8m =$ $2pq \times 7pq =$ $9ay^2 \times .12ay =$ $3a^3b^2 \times 7a^2b^5 =$ $8a^2mn^2 \times a^3m^2n =$ $9p^5q^4 \times 0 =$ $11z \times 4yz^7 =$ 2. Find the product of the monomial: (i) $7x \times 8x =$ (ii) $3x \times 5x \times 4 =$ (iii) $2xy \times 7ay(iv) a \times 4a^2 \times 6a^3 = (v) 9 \times 9m^2 = (vi) 4 \times 4p^2 \times 6p^2q^2 = (vii) (-5x) \times 8x^2y = (viii) (-7m^2n^2) \times (-5mn) = (ix) (-3a) \times (-2a^2b) \times (-8ab^2) = (x) 12abc^2 \times (-2ab^2c) \times 0 = 3.$ Find the value of: (i) $11x^5 \times 3x^2$ (ii) $(-4m^2) \times 4p^2$ (iii) $2abc \times 8a^2c^3$ (iv) $abcd \times abc$ (v) $6p^2q^2r^2 \times 2x^2y^2z^2$ (vi) $9 \times 4m^5n^7$ (vii) $3a^3b^3 \times (-4a^5b^3)$ (viii) $0 \times (15x^4y^4z^2)$ (ix) $1 \times 17x^5z^2$ (x) $b^5c^4 \times m^4z^5$ 4. Find the product of the two monomials: (i) $4xy$ and $-5xy$ (ii) xy^4 and $(-x^3y^4)$ (iii) $4x$ and $3ay$ (iv) $12ab^2c$ and $4ab^2$ (v) $5mp^2$ and $3mn^2p$ 5. Find the product of the three monomials: (i) $7ab^2c^5$, $4a^3b^2c^2$ and $2abc^2$ (ii) xy^2 , $2x^2y$ and xy (iii) x^5 , y^2x^5 and xyz (iv) $(-b^2c)$, $(-2bc)$ and $10c^2b$ (v) mn^3 , m^2n^4 and $5m$ 6. Multiply a monomial by a monomial: (i) $5a$ by 7 (ii) $4x^2$ by 9 (iii) $12uv$ by 3 (iv) $-pq$ by 16 (v) $31pxy$ by 2 (vi) $5x^2$ by $(-13x^4y)$ (vii) $(-2xy)$ by $(-2xy)$ by (vii) $5xy$ (viii) $(-7mn^2)$ by $(-6m^3n^5)$ (ix) $16xyz$ at $5x^2z^2$ (x) $102a^2bc$ by 0 Answers for the worksheet on multiplying monomials is given below to check the exact responses of the above-mentioned multiplication. Answers: 1. (i) 20, 20a^2 (ii) 63, 63a^5 (iii) 18, 18ab (iv) 48, 48am^2 (v) 14, 14p^2q^2 (vi) 108, 18a^2y^3 (vii) 21, 21a^5b^7 (viii) 8, 8a^5m^3n^3 (ix) 0, 0 (x) 4. 2. (i) $56x^2$ (ii) $60x^2$ (iii) $14axy^2$ (iv) $24a^6$ (v) $81m^2$ (vi) (vii) $-40x^3y$ (viii) $35m^3n^3$ (ix) $-48a^4b^3$ (x) 0 3. (i) $33x^7$ (ii) $-16m^2p^2$ (iii) $16a^3bc^4$ (iv) $a^2b^2c^2d$ (v) $12p^2q^2r^2x^2y^2z^2$ (vi) $36m^8n^{12}$ (vii) $-12a^8b^6$ (viii) 0 (ix) $17x^5z^2$ (x) $b^5c^4m^4z^5$ 4. (i) $-20x^2y^2$ (ii) $-x^4y^8$ (iii) $12a^2xy$ (iv) $48a^2b^4c$ (v) $15m^2n^2p^3$ 5. (i) $56a^5b^5c^9$ (ii) $2x^4y^4$ (iii) $x^{11}y^3z$ (iv) $20b^4c^4$ (v) $5m^4n^8$ 6. (i) $35a$ (ii) $36x^2$ (iii) $36uv$ (iv) $-16pq$ (v) $62pxy$ (vi) $-65x^6y$ (vii) $-10x^2y^2$ (viii) $42m^4n^7$ (ix) $80x^3yz^3$ (x) 0 • Terms of an Algebraic Expression - WorksheetWorksheet on Types of Algebraic Expression Worksheet on degree of ' A Polynomial Worksheet on Addition of PolynomialsWorksheet on subtraction of PolynomialsWorksheet on Additive and Subtraction of PolynomialsWorksheet on adding and subtracing PolynomialsWorksheet on multiplied Multiplying Monomial Worksheet on Multiplying Monomial and BinomialWorksheet on Multiplying Monomial and PolynomialWorksheet on Multiplication of BinomialsWorksheet On Dividing Monomial 6th Grade Maths Practice Maths Home Worksheets from worksheet on multiplying monomial to HOMEPAGE didn't find what you were looking for? Or want to know more information about Mathematics Only Mathematics. Mathworksheetsgo.com is now part of Mathwarehouse.com. All your worksheets are now here on Mathwarehouse.com. Please update your bookmarks! Students will practice multiplication of monomials. Directions: multiply the monomials below. Error : Please click on Not a Robot, and then try downloading again. This is a 4 part worksheet: Part I Model Problems Part II Practice Part III Challenge Problems Part IV Answer Key Error : Please click on Not a Robot, then try to download again. Again.