

## Math 2 Quiz 1.1 - 1.2 PRACTICE

**Simplify. Your answer should contain only positive exponents.**

1)  $3b \cdot b$

2)  $2n^2 \cdot 3n$

3)  $2yx^2 \cdot 3y^2$

4)  $m^4q^2 \cdot 4pm^2q^2 \cdot 4pm^3q^4$

5)  $4x^2y^2 \cdot 2x^4y^4z^3$

6)  $4yx^2z^4 \cdot xzy^4$

7)  $(v^4)^3$

8)  $(2u^4v^2)^4$

$$9) (4xy^2)^4$$

$$10) (x \cdot 2x)^4$$

$$11) 2b^2 \cdot (2b)^4$$

$$12) (2v)^3 \cdot uv^4$$

$$13) (m^2n^3)^3 \cdot nm^2$$

$$14) (x^2y^4)^4 \cdot (2yx^4)^3$$

$$15) (2z^4)^2 \cdot xyz^4 \cdot xz^4$$

$$16) (2zy^3)^4 \cdot x^3z^4$$

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**Simplify. Your answer should contain only positive exponents.**

1)  $3b \cdot b$

$3b^2$

2)  $2n^2 \cdot 3n$

$6n^3$

3)  $2yx^2 \cdot 3y^2$

$6y^3x^2$

4)  $m^4q^2 \cdot 4pm^2q^2 \cdot 4pm^3q^4$

$16m^9q^8p^2$

5)  $4x^2y^2 \cdot 2x^4y^4z^3$

$8x^6y^6z^3$

6)  $4yx^2z^4 \cdot xzy^4$

$4y^5x^3z^5$

7)  $(v^4)^3$

$v^{12}$

8)  $(2u^4v^2)^4$

$16u^{16}v^8$

$$9) (4xy^2)^4$$
$$256x^4y^8$$

$$10) (x \cdot 2x)^4$$
$$16x^8$$

$$11) 2b^2 \cdot (2b)^4$$
$$32b^6$$

$$12) (2v)^3 \cdot uv^4$$
$$8v^7u$$

$$13) (m^2n^3)^3 \cdot nm^2$$
$$m^8n^{10}$$

$$14) (x^2y^4)^4 \cdot (2yx^4)^3$$
$$8x^{20}y^{19}$$

$$15) (2z^4)^2 \cdot xyz^4 \cdot xz^4$$
$$4z^{16}x^2y$$

$$16) (2zy^3)^4 \cdot x^3z^4$$
$$16z^8y^{12}x^3$$