

Exponential Notation E
03/01/2012

Student Name: _____

Class: _____

Date: _____

Instructions: Read each question carefully and select the correct answer.

1. Simplify.

$$\frac{8x^5y^6z}{12x^3y^2z^2}$$

A. $\frac{2xy}{3z}$

B. $\frac{4x^2y^4}{6z}$

C. $\frac{2x^8y^8z^3}{3}$

D. $\frac{2x^2y^4}{3z}$

2. Simplify

$(6ab^2c)^{-4}$

A. $\frac{1}{24a^4b^8c^4}$	C. $\frac{1}{1296a^4b^8c^4}$
B. $24a^4b^8c^4$	D. $1296a^4b^8c^4$

A. A

B. B

C. C

D. D

3. Simplify.

$(6x^3y^2)(3x^2y^5)$

A. $18x^5y^7$
B. $18x^6y^{10}$
C. $18y^{-3}$
D. $\frac{18x}{y^3}$

A. A

B. B

C. C

D. D

4. Find the missing term.

$$(x^{5b}) \cdot (?) = x^{7b}$$

- | | |
|----|----------|
| A. | x^2 |
| B. | b^{2x} |
| C. | $2x$ |
| D. | x^{2b} |

- A. A
B. B
C. C
D. D