

Multiplying Monomials and Powers of Monomials  
Jefferson Davis Learning Center, Sandra Peterson

Simplify.

Answers

1.  $(x)(3x)$

1.  $3x^2$

2.  $(-2ab)(-2a^2)$

2.  $4a^3b$

3.  $(2yz)(3y^2)$

3.  $6y^3z$

4.  $x^2(3y^2)(4xy)$

4.  $12x^3y^3$

5.  $4x^5(-x^3y^2z)(-y^2z)$

5.  $4x^8y^4z^2$

6.  $(x^4)^2$

6.  $x^8$

7.  $(-3m^2)^3$

7.  $-27m^6$

8.  $(2c^4d^3)^4$

8.  $16c^{16}d^{12}$

9.  $(-p^5q^2)^2$

9.  $p^{10}q^4$

10.  $-(p^5q^2)^2$

10.  $-p^{10}q^4$

11.  $(3u)(uv^4)^2$

11.  $3u^3v^8$

12.  $-2s(st)^4$

12.  $-2s^5t^4$

13.  $3m^2n^3(m^2n)^3$

13.  $3m^8n^6$

14.  $(yz^2)^2(-4y^2)^2(2z^2)$

14.  $32y^6z^6$

15.  $(-pq^2)^2(2pq)^3(5p^2q)$

15.  $40p^7q^8$

Please visit the Learning Lab for further assistance.