**Practice 8-3 Multiplication Properties of Exponents**



**Simplify each expression.**

**1.** (3*d-*4)(5*d*8)**2*.*** (-8*m*4)(4*m*8) **3.** *n-6***∙** *n-6*

**4.** *a*3**∙***a* **5.** 38 **∙** 35 **6.** (3*p*−15 )(6*p*11)

**7*.*** *p*7 **∙***q*5 **∙***p*6**8.** (-1.5*a*5*b*2)(6*a*) **9.** (-2*d*3 *e*3)(6*d*4 *e*6)

**10.  11.** *p*5 **∙***q*2 **∙** *p*4**12. **

**13.** (8*d*4 )(4*d*7 ) **14.** *x*-9**∙***x*3**∙***x*2**15.** 23 **∙** 22

**16.** *r*7**∙***s*4**∙***s* **∙***r3* **1*7.***  *b*7**∙***b*13**18.** (7*p*4)(5*p*9)

**19.** 28 **∙** 2*−-9***∙** 23 **20.** (6*r*4*s* 3)(9*rs*2) **21.** 43 **∙** 42