

Name \_\_\_\_\_

**Evaluate the exponential form.**

1)  $-11^0$

2)  $(-7)^0$

**Simplify. Assume that variables represent nonzero numbers.**

3)  $(x^4y^5)(x^8y^2z^0)$

4)  $(2y)^9(2y)^8$

5)  $(t-5)^8(t-5)^2$

6)  $(n^3)^5(m^3n)^6$

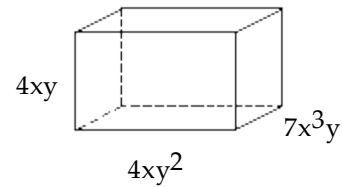
7)  $\left(\frac{x+y}{4}\right)^3$

8)  $\left(\frac{2x^4}{z^2}\right)^3$

9)  $\left(\frac{xy^8}{z^8}\right)^0$

**Find the area or volume of the figure, as specified.**

10) Find the volume.



11)  $\left(c + \frac{9}{8}\right)^2$

12)  $(6k+1)^3$

Answer Key

Testname: WKS\_12.4\_12.1\_REV

1) -1

2) 1

3)  $x^{12}y^7$

4)  $(2y)^{17}$

5)  $(t - 5)^{10}$

6)  $m^{18}n^{21}$

7)  $\frac{(x + y)^3}{64}$

8)  $\frac{8x^{12}}{z^6}$

9) 1

10)  $112x^5y^4$

11)  $c^2 + \frac{9}{4}c + \frac{81}{64}$

12)  $216k^3 + 108k^2 + 18k + 1$