

Name: \_\_\_\_\_

# Integer Exponents Worksheet

Evaluate each expression

1  $(5^2 \cdot 5^8) \div (5^3)^{-2}$

2  $(-2)^3 \cdot (-2)^1 \cdot (-2)^2 \cdot (-2)^6$

3  $(3^3 \cdot 3)^2 + [(-2)^5 \div (-2)^2]^3$

4  $(-9)^7 \div (-9)^6$

5  $\frac{(3^2 \cdot 3^{-1})^2}{3}$

6  $\frac{(3^{-2})^2}{4^2}$

7  $\left(\frac{3^{-2} \cdot 3^3}{2^3 \cdot 3^{-1}}\right)^{-1}$

8  $\frac{(-3)^4 - 2^5}{7^2} \cdot 2^3$

9  $(-3)^3 \div 3 \cdot 2^4$

10  $(-7)^0 \div 8 \cdot (-2)^3$

# Integer Exponents Worksheet

## Answers

1  $(5^2 \cdot 5^8) \div (5^3)^{-2}$

1525.878

2  $(-2)^3 \cdot (-2)^1 \cdot (-2)^2 \cdot (-2)^6$

4096

3  $(3^3 \cdot 3)^2 + [(-2)^5 \div (-2)^2]^3$

6049

4  $(-9)^7 \div (-9)^6$

-9

5  $\frac{(3^2 \cdot 3^{-1})^2}{3}$

 $\frac{27}{0.09}$ 

6  $\frac{(3^{-2})^2}{4^2}$

 $\frac{1}{1296}$ 

7  $\left(\frac{3^{-2} \cdot 3^3}{2^3 \cdot 3^{-1}}\right)^{-1}$

 $\frac{72}{0.0081}$ 

8  $\frac{(-3)^4 - 2^5}{7^2} \cdot 2^3$

8

9  $(-3)^3 \div 3 \cdot 2^4$

-0.25749

10  $(-7)^0 \div 8 \cdot (-2)^3$

-1