

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

Integers: S3

## Evaluating Exponents

Evaluate each expression.

1)  $\frac{8^2}{4^4}$

\_\_\_\_\_

2)  $5^2 + 7 - (-3)^2$

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

5)  $\frac{4^2 \cdot 2^{-6}}{7}$

\_\_\_\_\_

6)  $6^2 - (-4)^3$

\_\_\_\_\_

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7)  $9^2 \cdot 3^{-4} + (-5)^4$

\_\_\_\_\_

$\frac{2^5 - 2^{-3}}{8^2}$

\_\_\_\_\_

10)  $6^2 + (-5)^3 - 8^2$

\_\_\_\_\_

$4^{-2} \cdot 2^3 - 6^{-2}$

\_\_\_\_\_

13)  $6^2 \cdot (-9)^{-3}$

\_\_\_\_\_

14)  $3^3 \cdot 3^{-2} + 7^{-1} - 2^4$

\_\_\_\_\_

15)  $\frac{8^3}{2^6}$

\_\_\_\_\_

**Evaluating Exponents**

Evaluate each expression.

1)  $\frac{8^2}{4^4}$

                      
 **$\frac{1}{4}$**

2)  $5^2 + 7 - (-3)^2$

                      
**23**

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

                      
**0**

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

                      
 **$-\frac{4}{3}$  or  $-1\frac{1}{3}$**

5)  $\frac{4^2 \cdot 2^{-6}}{2^7}$

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6)  $6^2 - (-4)^3$

                      
**100**

7)  $9^2 \cdot 3^{-4} + (-5)^4$

                      
**626**

$\frac{2^5 - 2^{-3}}{8^2}$

                      
 **$\frac{255}{512}$**

10)  $6^2 + (-5)^3 - 8^2$

                      
**-153**

$4^{-2} \cdot 2^3 - 6^{-2}$

                      
 **$\frac{17}{36}$**

13)  $6^2 \cdot (-9)^{-3}$

                      
 **$-\frac{4}{81}$**

14)  $3^3 \cdot 3^{-2} + 7^{-1} - 2^4$

                      
 **$-\frac{90}{7}$  or  $-12\frac{6}{7}$**

15)  $\frac{8^3}{2^6}$

                      
**8**