

Name : _____

Evaluating Exponents

Integers: S2

Evaluate each expression.

1) $\frac{2^2 \cdot 3^5}{6^3}$

2) $8^{-3} \cdot (-8)^4 + 6^2$

3) $(-5)^5 - (-9)^3$

4) $2^{-9} \cdot 4^6$

5) $(-9)^{-2} + 3^{-5}$

6) $(-4)^3 \cdot 8^{-2} - 2^{-7}$

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7) $8^{-1} - (-2)^{-8}$

$7^2 + 6 - 3^3$

10) $5^3 \cdot (-5)^2 + 9^2$

$(-2)^{-2} \cdot 6^2 + 3^{-3} - 9^{-1}$

13) $(-6)^2 + 7$

14) $3^3 \cdot 6^{-3} - 2^5$

15) $7^2 - 5^4$

Name : _____

Evaluating Exponents

Evaluate each expression.

1) $\frac{2^2 \cdot 3^5}{6^3}$

$\frac{9}{2}$ or $4\frac{1}{2}$

2) $8^{-3} \cdot (-8)^4 + 6^2$

44

3) $(-5)^5 - (-9)^3$

-2,396

4) $2^{-9} \cdot 4^6$

8

5) $(-9)^{-2} + 3^{-5}$

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$-\frac{129}{128}$ or $-1\frac{1}{128}$

7) $8^{-1} - (-2)^{-8}$

$\frac{31}{256}$

6) $(-4)^3 \cdot 8^{-2} - 2^{-7}$

28

10) $5^3 \cdot (-5)^2 + 9^2$

3,206

7) $7^2 + 6 - 3^3$

16

$\frac{241}{27}$ or $8\frac{25}{27}$

13) $(-6)^2 + 7$

43

14) $3^3 \cdot 6^{-3} - 2^5$

$-\frac{255}{8}$ or $-31\frac{7}{8}$

15) $7^2 - 5^4$

-576