

Section 3.3 Extra Practice

1. Evaluate each expression. Show your work.

a) $5(3)^3 = 5 \times 3 \times 3 \times 3$
= _____

b) $6(-5)^2$

c) $4(-2^4)$

d) $-7(4^3)$

2. Write each expression, using a coefficient and a power.
Then, find the value of each expression. Show your work.

a) $4 \times 3 \times 3 \times 3 = 4(3)\square$ ← coefficient and power
= $4 \times \underline{\quad}$ ← evaluate power
= _____ ← value

b) $5 \times (-2) \times (-2) \times (-2) \times (-2) \times (-2)$

c) $-1 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$

d) $6(-10)(-10)(-10)(-10)(-10)$



3. Evaluate using your calculator.

a) $-6(4)^6 =$ _____ 

b) $7 \times 8^3 =$ _____

c) $-4(-9)^3 =$ _____

d) $-7^4 =$ _____

4. Evaluate. Show your work.

Use the order of operations.

a) $(6 + 3)^2 - 21$

b) $6^2 - 5^2$

$=$ ² $- 21$

$=$ _____ $- 21$

$=$ _____

c) $12 + (-4)^2 - (-3^3)$

d) $5^3 - 4(-2^3)$



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5. Find the value of each expression. Show your work.

a) $[(9 - (-2))]^2 + (-3)^3$

b) $12 - 3(4^2)$

c) $36 + (4^3 - 6^2)$

d) $-(-3^2) + (-9)^2$

6. For each pair of expressions, circle the one with the greatest value.
Show your work.

a) $3(2^4)$

$4(3^2)$

b) $10^3 + 10^3$

$(10 + 10)^3$

c) $(5 \times 3)^2$

$5^2 \times 3^2$

d) 4×3^2

$6(-2)^2$

