

Grade 9 Math

REVIEW for TEST 3

Name: _____

UNIT 2: POWERS and EXPONENT LAWS

CLASS: _____

SHOW your WORKINGS where possible.

1. A) Given: BASE _____ EXPONENT _____
 POWER _____ STANDARD FORM _____ (evaluate)
- B) Given: BASE _____ EXPONENT _____
 POWER _____ STANDARD FORM _____ (evaluate)
- C) Given: BASE _____ EXPONENT _____
 POWER _____ STANDARD FORM _____ (evaluate)

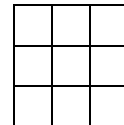
2. Identify each using:

- | | | | |
|-------------|---------|-------|----------------------|
| | SQUARED | CUBED | TO THE POWER OF ____ |
| A) 7^2 | _____ | | |
| B) $(-4)^5$ | _____ | | |
| C) -3^2 | _____ | | |
| D) 6^0 | _____ | | |

3. Write the power for each model.

A) POWER _____

B) POWER _____



4. What is the value of:

- | | | |
|----------|-------------------|-------------------|
| A) _____ | D) _____ | G) 2^3 _____ |
| B) _____ | E) _____ | H) -2^3 _____ |
| C) _____ | F) $(-5)^2$ _____ | I) $(-2)^3$ _____ |

5. What is the power shown by the repeated multiplication below?

- A) _____
- B) _____
- C) _____

6. Evaluate:

- A) _____ D) _____ G) _____
- B) _____ E) _____ H) -
- C) _____ F) _____ I) - -

6. LAWS OF EXPONENTS

- A) What is $()^5$ as a power?
- B) What is $—$ in standard form?
- C) What is $—$ written as a power?
- D) What is the product of _____ ?
- E) What is _____ as a power?

7. A) Explain why **DOES NOT EQUAL** _____ .

B) Explain why 3^4 **DOES NOT EQUAL** 12.

8. Use BEDMAS to solve each of the following. SHOW ALL WORKINGS!

A)	B)
C)	D)
E) [F)