MATH 9 LESSON 16

Unit 2 Powers & Exponent Laws

Set 1 Quiz

R Felix

End of Lesson 16

Assignment 16 - Summative Quiz

Powers & Exponent Laws Set 1 Quiz

Name:_____   Period:_____   Date:_____

Value: /22

Multiple Choice: Place the letter of your answer choice in the space provided. (Value 20)

_____ 1. What is the base of $-(-5)^3$.

    A. -5   B. 5   C. -5×3 D. 3

_____ 2. Write 7^5 as repeated multiplication.

    A. 5×7 C. $7 \times 7 \times 7 \times 7 \times 7$

    B. $7+7+7+7+7$ D. $7 \times 7 \times 7 \times 7 \times 7 \times 7$

_____ 3. Write $(-4) \times (-4) \times (-4) \times (-4) \times (-4) \times (-4)$ as a power.

    A. $(-4)^6$ B. $6 \times (-4)$ C. $-(4)^6$ D. $(-4)^5$

_____ 4. Write $(5)(5)(5)(5)(5)(5)(5)(5)$ as a power.

    A. 5^7 C. $(5)(5)(5)(5)(5)(5)(5)(5)$

    B. 8×5 D. 5^8

_____ 5. Evaluate: 6^5

    A. 30   B. 7776   C. 15 625   D. 11

_____ 6. Evaluate: -4^4

    A. -256   B. -16   C. 16   D. 256

_____ 7. Evaluate: $(-5)^7$

    A. -35   B. 35   C. 78 125   D. -78 125

_____ 8. Which answer(s) is negative?

    i) $(-6)^6$

    ii) $-(6)^6$

    iii) $-(-6)^6$

    A. i and ii   B. ii and iii   C. i only   D. i and iii

_____ 9. Which answer(s) is positive?

    i) $(6)^5$

    ii) $(-6)^5$

    iii) $-(6)^5$

    iv) $-(-6)^5$

    A. i and iv   B. iii and iv   C. i, ii, and iv   D. i and ii

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_____10. Evaluate: 10^5

A. 1 000 000   B. 100 000   C. 10 000   D. 50

_____11. Evaluate: -8^0

A. 8   B. 0   C. 1   D. -1

_____12. Evaluate: $(-13)^0$

A. 0   B. 1   C. -13   D. -1

_____13. Evaluate: $(-10^3)^0$

A. 1   B. -1   C. -30   D. 30

_____14. Evaluate: $4 - 6^2$

A. -8   B. 16   C. -32   D. 32

_____15. Evaluate: $(-3 \times 6)^2$

A. -324   B. 324   C. -36   D. 9

_____16. State which operation you would do first to evaluate $8 + 9 \times 6^2 - 5$.

A. Subtract 5 from 6   C. Add 8 and 9

B. Multiply 9 and 6   D. Square 6

_____17. Evaluate: $2^3 - (-3)^3$

A. 15   B. -19   C. -3   D. 35

_____18. Evaluate: $(5^3 - 4^2)^0 - (6^2 - 8^0)$

A. -34   B. -35   C. -36   D. 73

_____19. Evaluate: $(3 + 4)^2 - (2 - 4)^3$

A. -31   B. 57   C. 20   D. 41

_____20. Which is the correct value of $3^2 + 4 \times 6 - 4$?

A. 26   B. 17   C. 29   D. 74

21. Circle any errors in the work below. Show the correct solution. (2)

$(5 + 3)^2 \times 4 + 5$

$= 8^2 \times 9$

$= 64 \times 9$

$= 576$

Correction: