bananalearn

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Laws of exponents for Grade 9

Practice worksheet - Maths · Grade 9

Name: _____ Date: _____

Show your working. Answers are not included in this copy.

Try each task before opening its answer. Give an example or reason, not only a label.

Write an answer and your reason before opening the explanation. Check the reasoning as well as the final answer.

1. Expand 4^3 and evaluate.

2. Simplify $5^2 \times 5^3$.

3. Simplify $2^7 \div 2^4$.

4. Simplify $(3^2)^2$.

5. Find 11^0.

6. Find 4^{-2}.

7. Find $(2/5)^{-2}$.

8. Find $(-5)^2$ and -5^2.

9. Find $(-2)^3$.

10. Does $3^2 + 3^2$ equal 3^4?

11. Find 81^(1/2).

12. Find 8^(2/3).

13. Find 25^(-1/2).

14. Simplify y^6/y^2 and state the excluded value.

15. Evaluate $2^2 \times 3^2$ using a common exponent.

16. Is $(1/2)^4$ greater than $(1/2)^2$?