GRADE 8 MATH · HOMEWORK

Divide Exponential Expressions: Same Base

SCORE / 25

01 Part A · Practice

Quotient of Powers Property: $a^m \div a^n = a^{m-n}$ $(a \neq 0)$ — keep the base and subtract the exponents.

1 ●○○ Simplify $\frac{7^{11}}{7^8}$. Then evaluate.

2 ●○○ Simplify: $\frac{(-8)^{12}}{(-8)^{10}}$

3 ●○○ Find the missing exponent: $8^{\square} \div 8^5 = 8^8$

4 ●○○ Simplify: $\frac{18b^{17}}{6b^{11}}$

5 ●○○ Find the missing exponent: $11^{13} \div 11^{\square} = 11^5$

6 ●○○ Simplify $\frac{3^5}{3^3}$. Then evaluate.

7 ●○○ Simplify: $\frac{2^{11}}{2^3}$

8 ●○○ Simplify: $\frac{n^{10}}{n^3}$

9 ●○○ Find the missing exponent: $9^{16} \div 9^{\square} = 9^8$

10 ●○○ Simplify: $\frac{p^{13}}{p^{10}}$

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Preview - the full worksheet and its answer key are at primeworksheet.com