

Name: _____ number: __ Grade: 8/ __

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Simplify each of the following

(a) $(3^5 \times 5^4)^7$

Answer: _____

(b) $(6^2 \times 8^3 \times 11^2)^4$

Answer: _____

(c) $(p^3) \times p^5 \div (p^4)^2$

Answer: _____

(d) $\frac{(2k^2)^5 \times (k^3)^2}{4k^7}$

Answer: _____

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Find the values of the following exponential expressions. Write the simplified answers in positive exponential forms.

a) $\frac{(-2)^{10} \cdot (-2)^8 \cdot (-2)^5}{(-2)^{19}} =$

Answer: _____

b) $\frac{\left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^9}{\left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right)} =$

Answer: _____

c) $\frac{7^{-9} \cdot 7^{-7} \cdot 343}{7^{-2} \cdot 7^{-4}} =$

Answer: _____

Solve, find, drag and paste your answers appropriately from the table below:

$(-2)^4$	$\frac{1}{2^{15}}$	1	$\frac{1}{7^7}$	$\frac{1}{2^2 a^2 c^7}$	$\frac{a^{33}}{b^6}$
$\frac{1}{5^3}$	$2^3 k^9$	$\left(\frac{1}{3}\right)^6$	$3^{55} \times 5^{28}$	$6^8 \times 8^{12} \times 11^8$	

Simplify and express the answers using only positive exponents.

a) $\frac{5^{10} \times 5^{12} \times 5^{14}}{5^{11} \times 5^{13} \times 5^{15}}$

Answer:

c) $\frac{(a^{-3}b^2)^{-3}}{a^4b^{-3}} \times \frac{a^3b^2}{(a^5b^{-1})^{-5}}$

Answer:

b) $\frac{4a^{-9}b^{-11}c^{-13}}{16a^{-7}b^{-8}c^{-6}}$

Answer:

d) $\frac{256^{-2} \times 4^{-2} \times 16}{2^4 \times 2^{-5}}$

Answer:

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