

Name _____

Multiplying Exponents

Solve the given exponents and
Write the answer as a single exponent.

1) $125^3 \times 25^2$ $(5^3)^3 \times (5^2)^2$ $5^9 \times 5^4$ 5^{13}	2) $8^5 \times 64^2$ $(2^3)^5 \times (2^6)^2$ $2^{15} \times 2^{12}$ 2^{27}
3) $343^3 \times 7^5$ $(7^3)^3 \times 7^5$ $7^9 \times 7^5$ 7^{14}	4) $9^4 \times 729^3$ $(3^2)^4 \times (3^6)^3$ $3^8 \times 3^{18}$ 3^{26}
5) $4^3 \times 128^3$ $(2^2)^3 \times (2^7)^3$ $2^6 \times 2^{21}$ 2^{27}	6) $1331^2 \times 121^2$ $(11^3)^2 \times (11^2)^2$ $11^6 \times 11^4$ 11^{10}
7) $243^5 \times 81^4$ $(3^5)^5 \times (3^4)^4$ $3^{25} \times 3^{16}$ 3^{41}	8) $13^5 \times 2197^2$ $13^5 \times (13^3)^2$ $13^5 \times 13^6$ 13^{11}