

Name _____

Multiplying Exponents

Multiply the exponents with the same base and
Write the answer as a single exponent.

1) $3^2 \times 3^4 \times 3^{-2} \times 3^4 \times 3^6 \times 3^{-5}$ = _____

2) $2^{-2} \times 2^3 \times 2^4 \times 2^6$ = _____

3) $4^3 \times 4^2 \times 4^{-4} \times 4^3 \times 4^6$ = _____

4) $6^4 \times 6^{-2} \times 6^{11}$ = _____

5) $a^5 \times a^2 \times a^{-3} \times a^4$ = _____

6) $3^2 \times 3^7 \times 3^{-2} \times 3^6 \times 3^{-4} \times 3^2 \times 3^5$ = _____

7) $z^4 \times z^{-2} \times z^3 \times z^{-5} \times z^6$ = _____

8) $7^3 \times 7^2 \times 7^{-4} \times 7^{-2} \times 7^5$ = _____

9) $2^6 \times 2^{-3} \times 2^5 \times 2^4$ = _____

10) $6^2 \times 6^{-3} \times 6^{-4} \times 6^6 \times 6^4 \times 6^{-2}$ = _____