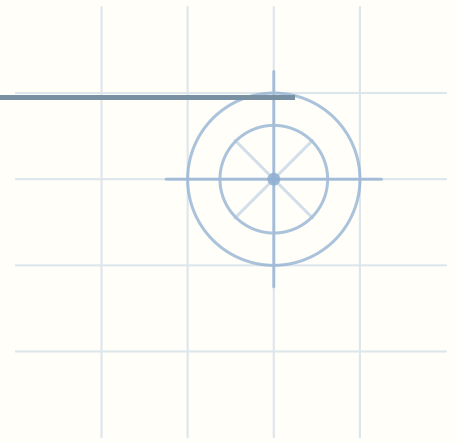


Laws of exponents — Multiplying powers

Name: _____

Date: _____

Write each product as one power. Give the exponent n .



1 $3^5 \times 3^8 = 3^n$, $n =$ _____

2 $7^{12} \times 7^5 = 7^n$, $n =$ _____

3 $8^{15} \times 8^3 = 8^n$, $n =$ _____

4 $12^3 \times 12^{12} = 12^n$, $n =$ _____

5 $4^2 \times 4^9 = 4^n$, $n =$ _____

6 $3^{11} \times 3^4 = 3^n$, $n =$ _____



Laws of exponents · Multiplying powers — Answer key

1. $3^5 \times 3^8 = 3^{13}$

2. $7^{12} \times 7^5 = 7^{17}$

3. $8^{15} \times 8^3 = 8^{18}$

4. $12^3 \times 12^{12} = 12^{15}$

5. $4^2 \times 4^9 = 4^{11}$

6. $3^{11} \times 3^4 = 3^{15}$

