Exponents and Powers

Topic: Laws of Exponent

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Name: _____

Date: _____

Using laws of exponent, simplify and write the answer in exponential form:

1. $3^2 \times 3^4 \times 3^8 = $ ▢ ▢

2. $6^{15} \div 6^{10} = $ ▢ ▢

3. $a^3 \times a^2 = $ ▢ ▢

4. $7^3 \times 7^2 = $ ▢ ▢

5. $2^5 \times 5^5 = $ ▢ ▢

6. $a^4 \times b^4 \ = $ ▢ ▢

7. $(2^{20} \div 2^{15}) \times 2^3 = $ ▢ ▢

8. $8^8 \div 8^2 = $ ▢ ▢

9. $3^4 \times 3^3 \times 3^6 = $ ▢ ▢

10. $6^{15} \times 6^{10} = $ ▢ ▢