

Name: _____

Exponents - Product Rule

Use product rule and rewrite each expression as single exponent

1 $12^{12} \times 12^{15}$

2 $14^{17} \times 14^{20}$

3 $1^{11} \times 1^{18}$

4 $15^{10} \times 15^{17}$

5 $8^4 \times 8^6$

6 $4^6 \times 4^4$

7 $3^{19} \times 3^{16}$

8 $6^9 \times 6^{12}$

9 $13^{20} \times 13^4$

10 $2^{16} \times 2^{11}$

11 $14^{17} \times 14^{22}$

12 $19^{16} \times 19^{12}$

13 $10^0 \times 10^1$

14 $11^2 \times 11^8$

Name: _____

Exponents - Product Rule

Answers

1 $12^{12} \times 12^{15}$

12^{27}

2 $14^{17} \times 14^{20}$

14^{37}

3 $1^{11} \times 1^{18}$

1^{29}

4 $15^{10} \times 15^{17}$

15^{27}

5 $8^4 \times 8^6$

8^{10}

6 $4^6 \times 4^4$

4^{10}

7 $3^{19} \times 3^{16}$

3^{35}

8 $6^9 \times 6^{12}$

6^{21}

9 $13^{20} \times 13^4$

13^{24}

10 $2^{16} \times 2^{11}$

2^{27}

11 $14^{17} \times 14^{22}$

14^{39}

12 $19^{16} \times 19^{12}$

19^{28}

13 $10^0 \times 10^1$

10^1

14 $11^2 \times 11^8$

11^{10}