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# Exponents in Factor Form (H)

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Write each exponent in factor form.

Exponent

$5^6 = 5 \times 5 \times 5 \times 5 \times 5 \times 5$  ○ ○ ○

Base

Multiply 5 (the base) by itself 6 (the exponent) times.

$4^{12} =$

$2^9 =$

$3^{11} =$

$5^2 =$

$9^6 =$

$6^{10} =$

$9^7 =$

$7^6 =$

$3^6 =$

# Exponents in Factor Form (H) Answers

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Write each exponent in expanded form.

$$5^6 = 5 \times 5 \times 5 \times 5 \times 5 \times 5$$

$$4^{12} = 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$$

$$2^9 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

$$3^{11} = 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$$

$$5^2 = 5 \times 5$$

$$9^6 = 9 \times 9 \times 9 \times 9 \times 9 \times 9$$

$$6^{10} = 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$$

$$9^7 = 9 \times 9 \times 9 \times 9 \times 9 \times 9 \times 9$$

$$7^6 = 7 \times 7 \times 7 \times 7 \times 7 \times 7$$

$$3^6 = 3 \times 3 \times 3 \times 3 \times 3 \times 3$$