

# Scientific Notation

Using Decimals & 10s

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

## Review

$$1.61257 \cdot 10 \cdot 10 \cdot 10 = 1.61257 \cdot 10^{\quad}$$

$$1.61257 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 = 1.61257 \cdot 10^{\quad}$$

## Find the Pattern

$$23.14159 \cdot 10^0 = \underline{\hspace{2cm}}$$

$$23.14159 \cdot 10^1 = \underline{\hspace{2cm}}$$

$$23.14159 \cdot 10^2 = \underline{\hspace{2cm}}$$

$$23.14159 \cdot 10^3 = \underline{\hspace{2cm}}$$

$$23.14159 \cdot 10^4 = \underline{\hspace{2cm}}$$

## Continue the pattern

$$23.14159 \cdot 10^5 = \underline{\hspace{2cm}}$$

$$23.14159 \cdot 10^6 = \underline{\hspace{2cm}}$$

$$23.14159 \cdot 10^7 = \underline{\hspace{2cm}}$$

## What's the rule?

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## What happens when the exponent is 0?

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## What if the exponent is negative?

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