

Name: Class:

Evaluate negative exponents

$9^3 =$

=

=

$13^{-4} =$

=

=

$17^{-5} =$

=

=

$9^{-5} =$

=

=

$10^{-7} =$

=

=

$13^{-3} =$

=

=

$5^{-8} =$

=

=

$11^{-6} =$

=

=

$2,000^{-2} =$

=

=

$\frac{1}{(74)^{-1}} =$

=

$\frac{1}{4^{-6}} =$

=

$\frac{1}{8^{-3}} =$

=

$\frac{1}{6^{-4}} =$

=

$\frac{1}{(1,000)^{-2}} =$

=

$\frac{1}{(17)^{-5}} =$

=

Name: Class:

Evaluate negative exponents

$$9^{-3} = \frac{1}{9^3}$$

$$= \frac{1}{9 \times 9 \times 9}$$

$$= \frac{1}{729}$$

$$13^{-4} = \frac{1}{13^4}$$

$$= \frac{1}{13 \times 13 \times 13 \times 13}$$

$$= \frac{1}{28,561}$$

$$17^{-5} = \frac{1}{17^5}$$

$$= \frac{1}{17 \times 17 \times 17 \times 17 \times 17}$$

$$= \frac{1}{1,419,857}$$

$$9^{-5} = \frac{1}{9^5}$$

$$= \frac{1}{9 \times 9 \times 9 \times 9 \times 9}$$

$$= \frac{1}{59,049}$$

$$10^{-7} = \frac{1}{10^7}$$

$$= \frac{1}{10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10}$$

$$= \frac{1}{10,000,000}$$

$$13^{-3} = \frac{1}{13^3}$$

$$= \frac{1}{13 \times 13 \times 13}$$

$$= \frac{1}{2,197}$$

$$5^{-8} = \frac{1}{5^8}$$

$$= \frac{1}{5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5}$$

$$= \frac{1}{390,625}$$

$$11^{-6} = \frac{1}{11^6}$$

$$= \frac{1}{11 \times 11 \times 11 \times 11 \times 11 \times 11}$$

$$= \frac{1}{1,771,561}$$

$$2,000^{-2} = \frac{1}{2,000^2}$$

$$= \frac{1}{2,000 \times 2,000}$$

$$= \frac{1}{4,000,000}$$

$$\frac{1}{(74)^{-1}} = 74^1$$

$$= 74$$

$$\frac{1}{4^{-6}} = 4^6$$

$$= 4,096$$

$$\frac{1}{8^{-3}} = 8^3$$

$$= 512$$

$$\frac{1}{6^{-4}} = 6^4$$

$$= 1,296$$

$$\frac{1}{(1,000)^{-2}} = 1,000^2$$

$$= 1,000,000$$

$$\frac{1}{(17)^{-5}} = 17^5$$

$$= 1,419,857$$