

Exponents

Name: _____

Date: _____

Find the value of x to balance the equation.

1

$$x^5 = 59049$$
$$x = \underline{\hspace{2cm}}$$

2

$$13824 = 24^x$$
$$x = \underline{\hspace{2cm}}$$

3

$$262144 = x^9$$
$$x = \underline{\hspace{2cm}}$$

4

$$6561 = 3^x$$
$$x = \underline{\hspace{2cm}}$$

5

$$x^2 = 784$$
$$x = \underline{\hspace{2cm}}$$

6

$$59049 = x^5$$
$$x = \underline{\hspace{2cm}}$$

7

$$1000 = x^3$$
$$x = \underline{\hspace{2cm}}$$

8

$$x^2 = 900$$
$$x = \underline{\hspace{2cm}}$$

9

$$6561 = 9^x$$
$$x = \underline{\hspace{2cm}}$$

10

$$289 = 17^x$$
$$x = \underline{\hspace{2cm}}$$

11

$$16384 = x^7$$
$$x = \underline{\hspace{2cm}}$$

12

$$x^5 = 16807$$
$$x = \underline{\hspace{2cm}}$$

13

$$3375 = x^3$$
$$x = \underline{\hspace{2cm}}$$

14

$$x^9 = 19683$$
$$x = \underline{\hspace{2cm}}$$

15

$$2197 = 13^x$$
$$x = \underline{\hspace{2cm}}$$

16

$$x^5 = 32768$$
$$x = \underline{\hspace{2cm}}$$

17

$$59049 = 9^x$$
$$x = \underline{\hspace{2cm}}$$

18

$$4913 = x^3$$
$$x = \underline{\hspace{2cm}}$$

Exponents

Name: _____

Date: _____

Find the value of x to balance the equation.

1

$$x^5 = 59049$$
$$x = \underline{\quad 9 \quad}$$

2

$$13824 = 24^x$$
$$x = \underline{\quad 3 \quad}$$

3

$$262144 = x^9$$
$$x = \underline{\quad 4 \quad}$$

4

$$6561 = 3^x$$
$$x = \underline{\quad 8 \quad}$$

5

$$x^2 = 784$$
$$x = \underline{\quad 28 \quad}$$

6

$$59049 = x^5$$
$$x = \underline{\quad 9 \quad}$$

7

$$1000 = x^3$$
$$x = \underline{\quad 10 \quad}$$

8

$$x^2 = 900$$
$$x = \underline{\quad 30 \quad}$$

9

$$6561 = 9^x$$
$$x = \underline{\quad 4 \quad}$$

10

$$289 = 17^x$$
$$x = \underline{\quad 2 \quad}$$

11

$$16384 = x^7$$
$$x = \underline{\quad 4 \quad}$$

12

$$x^5 = 16807$$
$$x = \underline{\quad 7 \quad}$$

13

$$3375 = x^3$$
$$x = \underline{\quad 15 \quad}$$

14

$$x^9 = 19683$$
$$x = \underline{\quad 3 \quad}$$

15

$$2197 = 13^x$$
$$x = \underline{\quad 3 \quad}$$

16

$$x^5 = 32768$$
$$x = \underline{\quad 8 \quad}$$

17

$$59049 = 9^x$$
$$x = \underline{\quad 5 \quad}$$

18

$$4913 = x^3$$
$$x = \underline{\quad 17 \quad}$$