

# Exponents

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Find the value of x to balance the equation.

1

$$x^3 = 1331$$
$$x = \underline{\hspace{2cm}}$$

2

$$243 = 3^x$$
$$x = \underline{\hspace{2cm}}$$

3

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

4

$$225 = 15^x$$
$$x = \underline{\hspace{2cm}}$$

5

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

6

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

7

$$2187 = x^7$$
$$x = \underline{\hspace{2cm}}$$

8

$$x^3 = 9261$$
$$x = \underline{\hspace{2cm}}$$

9

$$3375 = 15^x$$
$$x = \underline{\hspace{2cm}}$$

10

$$256 = 2^x$$
$$x = \underline{\hspace{2cm}}$$

11

$$65536 = x^8$$
$$x = \underline{\hspace{2cm}}$$

12

$$x^4 = 2401$$
$$x = \underline{\hspace{2cm}}$$

13

$$6561 = x^8$$
$$x = \underline{\hspace{2cm}}$$

14

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

15

$$1296 = 6^x$$
$$x = \underline{\hspace{2cm}}$$

16

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

17

$$324 = 18^x$$
$$x = \underline{\hspace{2cm}}$$

18

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

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Find the value of x to balance the equation.

1

$$x^3 = 1331$$
$$x = \underline{11}$$

2

$$243 = 3^x$$
$$x = \underline{5}$$

3

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

4

$$225 = 15^x$$
$$x = \underline{2}$$

5

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

6

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

7

$$2187 = x^7$$
$$x = \underline{3}$$

8

$$x^3 = 9261$$
$$x = \underline{21}$$

9

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

10

$$256 = 2^x$$
$$x = \underline{8}$$

11

$$65536 = x^8$$
$$x = \underline{4}$$

12

$$x^4 = 2401$$
$$x = \underline{7}$$

13

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

14

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

15

$$1296 = 6^x$$
$$x = \underline{4}$$

16

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

17

$$324 = 18^x$$
$$x = \underline{2}$$

18

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