



Distinguish negative powers from powers with negative bases

1

Multiply -2s as shown. Remember that $-2 \times -2 = 4$

$$-2 \times -2 \times -2 \times -2 = ?$$

A

-16

B

16

2

Find the answer when this number is multiplied by itself as shown

$$(-5) \times (-5) \times (-5)$$

A

-15

B

-125

C

625

D

-5

E

-128

F

25

3

Find the answer when this number is raised to its exponent

$$(-3)^4$$

A

1

B

729

C

9

D

-243

E

81

F

84

4

Find the answer when this fraction is raised to its exponent

$$\left(\frac{1}{2}\right)^{-1}$$

A

 $\frac{1}{4}$

B

2

C

-1

D

4

E

 $\frac{4}{-2}$

F

 $-\frac{1}{2}$ **5**

What is another way of representing this number raised to a negative exponent?

$$8^{-5}$$

A

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

B

 $\frac{8}{5^8}$

C

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

D

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

E

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

F

 $\frac{-1}{5^8}$ **6**

Find the answer when this number is raised to its exponent

$$5^{-2}$$

A

5

B

 $\frac{1}{125}$

C

 $\frac{1}{25}$

D

625

E

 $\frac{1}{7}$

F

125

7

What is another way of representing this number raised to a negative exponent?

$$(-7)^{-3}$$

A

 $\frac{1}{7^3}$

B

 $\frac{-1}{7^3}$

C

 $\frac{1}{3^7}$

D

 $\frac{7}{3^{-1}}$

E

 $\frac{-1}{3^7}$

F

 $\frac{7}{3^7}$ **8**

What is another way of representing this number raised to a negative exponent?

$$(-2)^{-3}$$

A

 $\frac{1}{2^3}$

B

 $\frac{-1}{2^3}$

C

 $\frac{2}{3^{-1}}$

D

 $\frac{2}{3^2}$

E

 $\frac{-1}{3^2}$

F

 $\frac{1}{3^2}$



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9

Find the answer when this number is raised to its exponent

$$(-8)^{-2}$$

A

512

B

$$\frac{1}{67}$$

C

$$-\frac{1}{10}$$

D

64

E

$$\frac{1}{64}$$

F

$$\frac{1}{512}$$

10

Find the answer when this number is raised to its exponent

$$(-9)^{-2}$$

A

6561

B

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

C

$$-\frac{1}{18}$$

D

18

E

81

F

$$\frac{1}{81}$$

11

What is another way of representing this number raised to a negative exponent?

$$(-10)^{-4}$$

A

$$\frac{-1}{10^4}$$

B

$$\frac{-1}{4^{10}}$$

C

$$\frac{10}{4^{-1}}$$

D

$$\frac{1}{10^4}$$

E

$$\frac{10}{4^{10}}$$

F

$$\frac{1}{4^{10}}$$

12

Find the answer when this number is raised to its exponent

$$(-11)^{-2}$$

A

$$\frac{1}{121}$$

B

$$\frac{1}{13}$$

C

$$\frac{-1}{118}$$

D

$$\frac{-1}{14641}$$

E

1

F

$$\frac{1}{118}$$