Name



Exponents - Negative Bases and Exponents Intro

1 Solve the equation with the negative integers

$$5 \times -6 = ?$$

A 36	B -30
C -36	D 30

2 Find the answer when this number is raised to its exponent

$$3^2$$

A 81	B 9	C 12
D 6	E 3	F 1

3 Multiply -1s as shown. Remember that -1 x -1 = 1

$$-1 \times -1 \times -1 \times -1 \times -1 = ?$$

A 1	B -1

4 Multiply -2s as shown. Remember that -2 x -2 = 4

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

A 4	B -4

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

$$(-10) \times (-10)$$

A -10	B 103
C -8	D 100
E -1,000	F 1

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

$$(-12) \times (-12)$$

A -10	B -12
C -24	D 144
E 147	F 20,736

7 Find the answer when this number is raised to its exponent

$$(-8)^2$$

A -512	B -8	C 64
D -6	E 67	F -16

8 Find the answer when this number is raised to its exponent

$$(-3)^4$$

A -243	B 1	C 84
D 81	E 729	F 9

Name

Exponents - Negative Bases and Exponents - Intro

9 Find the answer when this number is raised to its exponent

8^{-2}

A $\frac{1}{16}$	B 16
C $\frac{1}{64}$	D 4096
E 67	F $\frac{1}{8}$

10 Find the answer when this fraction is raised to its exponent

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

A 2	B -1	C 4
D $-\frac{1}{2}$	E $\frac{4}{-2}$	F $\frac{1}{4}$

11 Find the answer when this fraction is raised to its exponent

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

A 1	B $-\frac{1}{-3}$	C $-\frac{2}{0}$
D $\frac{4}{5}$	E $-\frac{1}{-5}$	F 5

12 Find the answer when this fraction is raised to its exponent

$(\frac{7}{5})^{-1}$

A $\frac{1}{3}$	B $\frac{6}{-3}$	C $\frac{6}{-5}$
D $\frac{3}{0}$	E $-\frac{7}{0}$	F $\frac{5}{7}$

13 Find the answer when this fraction is raised to its exponent

$(\frac{5}{3})^{-1}$

A $\frac{5}{-3}$	B $\frac{4}{2}$	C $\frac{5}{3}$
D 0	E $\frac{3}{5}$	F $\frac{1}{0}$