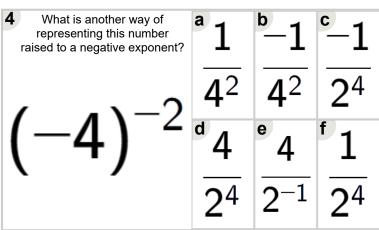# mobius

Math worksheet on *'Exponents - Negative Exponents, Negative Base (to Fraction Exponent Form) (Level 1)'*. Part of a broader unit on *'Exponents - Advanced'*

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

$$(-10)^{-2}$$

a	b	c
$\dfrac{-1}{10^2}$	$\dfrac{10}{2^{10}}$	$\dfrac{1}{2^{10}}$
d	**e**	**f**
$\dfrac{1}{10^2}$	$\dfrac{-1}{2^{10}}$	$\dfrac{10}{2^{-1}}$

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

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

a	b	c
$\dfrac{1}{2^8}$	$\dfrac{-1}{2^8}$	$\dfrac{1}{8^2}$
d	**e**	**f**
$\dfrac{8}{2^{-1}}$	$\dfrac{8}{2^8}$	$\dfrac{-1}{8^2}$

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

$$(-5)^{-2}$$

a	b	c
$\dfrac{5}{2^{-1}}$	$\dfrac{-1}{2^5}$	$\dfrac{1}{5^2}$
d	**e**	**f**
$\dfrac{-1}{5^2}$	$\dfrac{5}{2^5}$	$\dfrac{1}{2^5}$

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

$$(-4)^{-2}$$

a	b	c
$\dfrac{1}{4^2}$	$\dfrac{-1}{4^2}$	$\dfrac{-1}{2^4}$
d	**e**	**f**
$\dfrac{4}{2^4}$	$\dfrac{4}{2^{-1}}$	$\dfrac{1}{2^4}$

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

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

a	b	c
$\dfrac{9}{2^{-1}}$	$\dfrac{-1}{2^9}$	$\dfrac{9}{2^9}$
d	**e**	**f**
$\dfrac{1}{2^9}$	$\dfrac{-1}{9^2}$	$\dfrac{1}{9^2}$

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

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

a	b	c
$\dfrac{3}{2^3}$	$\dfrac{1}{2^3}$	$\dfrac{3}{2^{-1}}$
d	**e**	**f**
$\dfrac{1}{3^2}$	$\dfrac{-1}{3^2}$	$\dfrac{-1}{2^3}$

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

$$(-7)^{-2}$$

a	b	c
$\dfrac{-1}{7^2}$	$\dfrac{7}{2^{-1}}$	$\dfrac{7}{2^7}$
d	**e**	**f**
$\dfrac{1}{7^2}$	$\dfrac{1}{2^7}$	$\dfrac{-1}{2^7}$