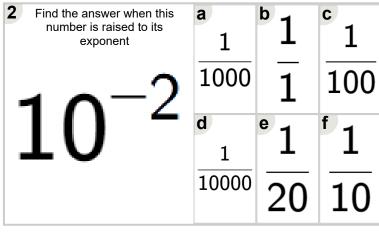# mobius

Math worksheet on *'Exponents - Negative Exponents (Level 2)'*. Part of a broader unit on *'Exponents - Negative and Fractional Bases and Exponents'*
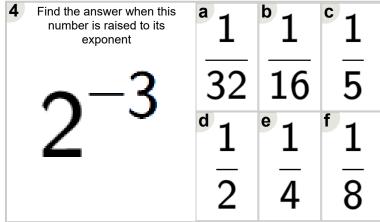
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1 Find the answer when this number is raised to its exponent

$$6^{-2}$$

a	b	c
$\dfrac{1}{12}$	$\dfrac{1}{36}$	$\dfrac{1}{216}$
d $\dfrac{1}{36}$	**e** $\dfrac{1}{8}$	**f** $\dfrac{1}{6}$

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

$$10^{-2}$$

a	b	c
$\dfrac{1}{1000}$	$\dfrac{1}{1}$	$\dfrac{1}{100}$
d $\dfrac{1}{10000}$	**e** $\dfrac{1}{20}$	**f** $\dfrac{1}{10}$

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

$$3^{-2}$$

a	b	c
$\dfrac{1}{12}$	$\dfrac{1}{9}$	$\dfrac{1}{27}$
d $\dfrac{1}{81}$	**e** $\dfrac{1}{3}$	**f** $\dfrac{1}{6}$

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

$$2^{-3}$$

a	b	c
$\dfrac{1}{32}$	$\dfrac{1}{16}$	$\dfrac{1}{5}$
d $\dfrac{1}{2}$	**e** $\dfrac{1}{4}$	**f** $\dfrac{1}{8}$

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

$$5^{-2}$$

a	b	c
$\dfrac{1}{1}$	$\dfrac{1}{7}$	$\dfrac{1}{125}$
d $\dfrac{1}{10}$	**e** $\dfrac{1}{25}$	**f** $\dfrac{1}{5}$

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

$$8^{-2}$$

a	b	c
$\dfrac{1}{16}$	$\dfrac{1}{4096}$	$\dfrac{1}{512}$
d $\dfrac{1}{64}$	**e** $\dfrac{1}{8}$	**f** $\dfrac{1}{10}$

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

$$4^{-2}$$

a	b	c
$\dfrac{1}{1}$	$\dfrac{1}{16}$	$\dfrac{1}{13}$
d $\dfrac{1}{64}$	**e** $\dfrac{1}{6}$	**f** $\dfrac{1}{4}$

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