Math worksheet on *'Exponents - Negative Unit Fraction Base (Level 3)'*. Part of a broader unit on *'Exponents - Fractional Bases and Exponents - Practice'*

Learn online:

app.mobius.academy/math/units/exponents_fractional_bases_and_exponents_practi

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

$$\left(\frac{-1}{11}\right)^2$$

a $\frac{1}{1,331}$	**b** $-\frac{1}{118}$	**c** $-\frac{1}{13}$
d $\frac{1}{121}$	**e** $-\frac{1}{22}$	**f** -1

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

$$\left(\frac{-1}{2}\right)^4$$

a $\frac{1}{6}$	**b** $-\frac{4}{8}$	**c** $\frac{4}{8}$
d $\frac{1}{32}$	**e** $-\frac{1}{8}$	**f** $\frac{1}{16}$

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

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

a $-\frac{1}{625}$	**b** $-\frac{3}{15}$	**c** $-\frac{1}{125}$
d $\frac{1}{15}$	**e** $-\frac{3}{625}$	**f** $-\frac{3}{8}$

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

$$\left(\frac{-1}{3}\right)^4$$

a $\frac{1}{27}$	**b** $-\frac{4}{7}$	**c** $-\frac{1}{12}$
d $\frac{1}{9}$	**e** $-\frac{1}{9}$	**f** $\frac{1}{81}$

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

$$\left(\frac{-1}{10}\right)^2$$

a $-\frac{2}{1,000}$	**b** $-\frac{2}{20}$	**c** $-\frac{1}{20}$
d $-\frac{1}{10}$	**e** $\frac{1}{100}$	**f** $\frac{1}{10}$

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

$$\left(\frac{-1}{2}\right)^5$$

a $-\frac{4}{29}$	**b** $-\frac{1}{10}$	**c** $\frac{1}{29}$
d $-\frac{1}{16}$	**e** $-\frac{1}{32}$	**f** $\frac{1}{128}$

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

$$\left(\frac{-1}{9}\right)^2$$

a $-\frac{2}{9}$	**b** $\frac{4}{729}$	**c** -2
d $\frac{1}{81}$	**e** $-\frac{1}{11}$	**f** $\frac{1}{729}$