mobius

Math worksheet on *'Exponents - Negative Fractional Base (Level 2)'*. Part of a broader unit on *'Exponents - Negative and Fractional Bases and Exponents'*

Learn online:

app.mobius.academy/math/units/exponents_negative_and_fractional_bases_review/

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

$$\left(\frac{-2}{8}\right)^2$$

a 0	**b** $\frac{4}{64}$	**c** $\frac{16}{8}$
d -2	**e** $-\frac{2}{16}$	**f** $-\frac{2}{8}$

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

$$\left(\frac{-7}{8}\right)^2$$

a $\frac{49}{64}$	**b** $-\frac{7}{8}$	**c** $-\frac{5}{16}$
d $-\frac{14}{16}$	**e** $-\frac{343}{512}$	**f** $-\frac{14}{61}$

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

$$\left(\frac{-8}{2}\right)^2$$

a $-\frac{6}{4}$	**b** $\frac{64}{4}$	**c** $-\frac{512}{16}$
d $-\frac{8}{2}$	**e** $-\frac{16}{2}$	**f** $-\frac{16}{4}$

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

$$\left(\frac{-8}{7}\right)^2$$

a -512	**b** $\frac{4,096}{9}$	**c** $\frac{64}{49}$
d $\frac{1}{14}$	**e** $-\frac{512}{343}$	**f** $\frac{61}{7}$

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

$$\left(\frac{-5}{7}\right)^2$$

a $-\frac{125}{7}$	**b** $\frac{1}{2,401}$	**c** $\frac{25}{49}$
d -10	**e** $\frac{625}{9}$	**f** $\frac{625}{14}$

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

$$\left(\frac{-3}{7}\right)^2$$

a $\frac{12}{7}$	**b** $-\frac{3}{7}$	**c** $\frac{81}{14}$
d $-\frac{6}{343}$	**e** $\frac{9}{49}$	**f** $-\frac{6}{2,401}$

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

$$\left(\frac{-2}{3}\right)^3$$

a $-\frac{11}{30}$	**b** $-\frac{6}{81}$	**c** $-\frac{8}{27}$
d $\frac{4}{3}$	**e** $\frac{16}{81}$	**f** $-\frac{32}{9}$