

Negative Indices

1. Write the following as fractions without indices:

a. $5^{-1} =$	b. $3^{-4} =$	c. $2^{-3} =$
d. $10^{-2} =$	e. $4^{-3} =$	f. $3^{-3} =$
g. $11^{-2} =$	h. $2^{-8} =$	i. $5^{-4} =$
j. $2 \times 3^{-2} =$	k. $3 \times 3^{-4} =$	l. $2^5 \times 10^{-4} =$

2. Write the following fractions in index form:

a. $\frac{1}{2} =$	b. $\frac{1}{3} =$	c. $\frac{1}{7} =$
d. $\frac{1}{5^3} =$	e. $\frac{1}{2^2} =$	f. $\frac{1}{8^7} =$

3. Fill in the gaps to convert these fractions into index form:

a. $\frac{1}{25} = 5^{\square}$	b. $\frac{1}{16} = 2^{\square}$	c. $\frac{1}{27} = 3^{\square}$
d. $\frac{1}{100} = \square^{-2}$	e. $\frac{2}{9} = 2 \times 3^{\square}$	f. $\frac{4}{36} = 2^{\square} \times 6^{\square}$
g. $\frac{25}{64} = 5^{\square} \times 4^{\square}$	h. $\frac{8}{121} = \square^{\square} \times 11^{\square}$	i. $\frac{125}{27} = \square^3 \times \square^{-3}$

4. Convert the following decimals into index form using negative indices:

a. $0.1 =$	b. $0.25 =$	c. $0.125 =$
d. $0.0001 =$	e. $0.04 =$	f. $0.0625 =$