



Math worksheet on 'Exponents - Unit Fraction Base (Level 1)'. Part of a broader unit on 'Exponents - Fractional Bases and Exponents - Intro'

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

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

| | | |
|-----------------|------------------|-----------------|
| a $\frac{4}{2}$ | b $\frac{1}{4}$ | c 1 |
| d 3 | e $\frac{1}{16}$ | f $\frac{3}{4}$ |

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

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

| | | |
|------------------|------------------|-------------------|
| a $\frac{1}{25}$ | b $\frac{2}{5}$ | c $\frac{3}{125}$ |
| d 1 | e $\frac{2}{28}$ | f $\frac{1}{10}$ |

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

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

| | | |
|-----------------|-----------------|------------------|
| a $\frac{1}{4}$ | b 1 | c $-\frac{2}{4}$ |
| d 3 | e $\frac{2}{4}$ | f $\frac{1}{16}$ |

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

$$\left(\frac{1}{6}\right)^2$$

| | | |
|-------------------|------------------|---------------------|
| a $\frac{4}{39}$ | b $\frac{1}{8}$ | c $\frac{1}{36}$ |
| d $\frac{1}{216}$ | e $\frac{1}{39}$ | f $\frac{1}{1,296}$ |

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

$$\left(\frac{1}{3}\right)^2$$

| | | |
|-----------------|-----------------|------------------|
| a $\frac{1}{6}$ | b 3 | c $\frac{1}{3}$ |
| d $\frac{2}{6}$ | e $\frac{1}{9}$ | f $\frac{2}{81}$ |