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

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

$$\left(\frac{-7}{9}\right)^2$$

a $-\frac{5}{9}$ **b** $\frac{1}{6,561}$ **c** $\frac{49}{81}$

d $-\frac{14}{11}$ **e** $-\frac{7}{11}$ **f** $-\frac{5}{729}$

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

$$\left(\frac{-5}{11}\right)^2$$

a $\frac{625}{22}$ **b** $-\frac{10}{1,331}$ **c** $\frac{25}{121}$

d $-\frac{3}{14,641}$ **e** $\frac{1}{1,331}$ **f** $-\frac{125}{1,331}$

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

$$\left(\frac{-4}{6}\right)^3$$

a $-\frac{1,024}{18}$ **b** $-\frac{1}{6}$ **c** $-\frac{64}{216}$

d $\frac{256}{36}$ **e** $\frac{16}{36}$ **f** $-\frac{1}{7,776}$

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

$$\left(\frac{-6}{3}\right)^3$$

a $\frac{36}{243}$ **b** $-\frac{18}{9}$ **c** $\frac{1,296}{6}$

d $-\frac{18}{24}$ **e** $-\frac{216}{27}$ **f** $-\frac{6}{9}$

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

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

a $-\frac{4}{103}$ **b** -4 **c** $-\frac{4}{20}$

d $\frac{4}{100}$ **e** $-\frac{2}{10}$ **f** $-\frac{4}{10}$

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

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

a $\frac{121}{4}$ **b** -9 **c** $-1,331$

d $-\frac{22}{2}$ **e** $-\frac{11}{4}$ **f** $\frac{124}{8}$

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

$$\left(\frac{-11}{10}\right)^2$$

a $-\frac{22}{10,000}$ **b** $\frac{118}{1,000}$ **c** $\frac{1}{20}$

d $\frac{121}{100}$ **e** $-\frac{1,331}{1,000}$ **f** $\frac{1}{10}$