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

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1 Find the answer when this fraction is multiplied as shown

$$\left(\frac{1}{9}\right)\cdot\left(\frac{1}{9}\right)$$

a	b	c
$-\frac{2}{6,561}$	$\frac{1}{729}$	$\frac{2}{78}$
d	**e**	**f**
$\frac{1}{11}$	$\frac{1}{81}$	$\frac{1}{9}$

2 Find the answer when this fraction is multiplied as shown

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

a	b	c	d	e	f
$\frac{1}{4}$	$\frac{4}{8}$	$\frac{1}{8}$	$-\frac{2}{32}$	$\frac{5}{8}$	$\frac{1}{16}$

3 Find the answer when this fraction is multiplied as shown

$$\left(\frac{1}{6}\right)\cdot\left(\frac{1}{6}\right)\cdot\left(\frac{1}{6}\right)$$

a	b	c	d	e	f
$\frac{4}{1,296}$	$\frac{1}{216}$	$\frac{4}{6}$	$\frac{1}{36}$	$\frac{1}{213}$	$-\frac{2}{6}$

4 Find the answer when this fraction is multiplied as shown

$$\left(\frac{1}{5}\right)\cdot\left(\frac{1}{5}\right)\cdot\left(\frac{1}{5}\right)$$

a	b	c	d	e	f
$\frac{1}{5}$	$\frac{1}{122}$	$\frac{1}{625}$	$\frac{1}{25}$	$\frac{1}{125}$	$\frac{4}{15}$

5 Find the answer when this fraction is multiplied as shown

$$\left(\frac{1}{10}\right)\cdot\left(\frac{1}{10}\right)$$

a	b	c
$\frac{3}{1,000}$	$\frac{2}{20}$	$\frac{2}{10,000}$
d	**e**	**f**
$\frac{1}{100}$	$\frac{2}{1,000}$	$\frac{1}{20}$

6 Find the answer when this fraction is multiplied as shown

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

a	b	c	d	e	f
$-\frac{2}{7}$	$\frac{1}{64}$	$\frac{6}{10}$	$\frac{1}{16}$	$\frac{1}{7}$	$\frac{1}{32}$

7 Find the answer when this fraction is multiplied as shown

$$\left(\frac{1}{3}\right)\cdot\left(\frac{1}{3}\right)\cdot\left(\frac{1}{3}\right)\cdot\left(\frac{1}{3}\right)$$

a	b	c	d	e	f
$\frac{1}{27}$	$\frac{4}{243}$	$\frac{1}{7}$	$\frac{1}{12}$	$\frac{1}{81}$	$\frac{4}{27}$