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Math worksheet on *'Exponents - Negative Unit Fraction Base (Expanded Fraction) (Level 3)'*. Part of broader unit on *'Exponents - Fractional Bases and Exponents - Practice'*
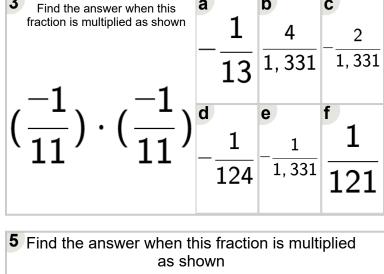
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1 Find the answer when this fraction is multiplied as shown

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

a	b	c	d	e	f
$-\dfrac{1}{216}$	$\dfrac{1}{18}$	$\dfrac{2}{36}$	$\dfrac{1}{1,296}$	$\dfrac{2}{1,296}$	$-\dfrac{1}{18}$

2 Find the answer when this fraction is multiplied as shown

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

a	b	c
-1	$-\dfrac{1}{729}$	$\dfrac{1}{6,561}$

d	e	f
$\dfrac{1}{81}$	-2	$\dfrac{1}{18}$

3 Find the answer when this fraction is multiplied as shown

$$\left(\frac{-1}{11}\right) \cdot \left(\frac{-1}{11}\right)$$

a	b	c
$-\dfrac{1}{13}$	$\dfrac{4}{1,331}$	$-\dfrac{2}{1,331}$

d	e	f
$-\dfrac{1}{124}$	$-\dfrac{1}{1,331}$	$\dfrac{1}{121}$

4 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
$-\dfrac{1}{7}$	$-\dfrac{1}{32}$	$\dfrac{1}{7}$	$\dfrac{1}{16}$	$\dfrac{1}{128}$	$\dfrac{4}{16}$

5 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
$\dfrac{1}{8}$	$-\dfrac{4}{32}$	$\dfrac{3}{8}$	$\dfrac{1}{16}$	$-\dfrac{4}{8}$	$-\dfrac{1}{8}$

6 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
$\dfrac{4}{12}$	$-\dfrac{1}{27}$	$-\dfrac{4}{12}$	$\dfrac{3}{12}$	$\dfrac{1}{81}$	$-\dfrac{1}{9}$

7 Find the answer when this fraction is multiplied as shown

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

a	b	c
$-\dfrac{2}{1,000}$	$-\dfrac{2}{20}$	$\dfrac{1}{20}$

d	e	f
$-\dfrac{1}{20}$	$-\dfrac{2}{12}$	$\dfrac{1}{100}$