



Math worksheet on 'Exponents - Fractional 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

$$\left(\frac{10}{4}\right) \cdot \left(\frac{10}{4}\right)$$

a $\frac{20}{4}$	b 1	c $\frac{12}{8}$
d $\frac{100}{16}$	e $\frac{12}{4}$	f 12

2 Find the answer when this fraction is multiplied as shown

$$\left(\frac{6}{4}\right) \cdot \left(\frac{6}{4}\right) \cdot \left(\frac{6}{4}\right)$$

a $\frac{216}{64}$	b $\frac{1,296}{16}$	c $\frac{18}{4}$	d $\frac{6}{67}$	e $\frac{213}{16}$	f $\frac{6}{256}$
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3 Find the answer when this fraction is multiplied as shown

$$\left(\frac{4}{10}\right) \cdot \left(\frac{4}{10}\right)$$

a 19	b $\frac{16}{100}$	c $\frac{8}{10}$
d 4	e $\frac{1}{1,000}$	f $\frac{64}{20}$

4 Find the answer when this fraction is multiplied as shown

$$\left(\frac{2}{11}\right) \cdot \left(\frac{2}{11}\right)$$

a $\frac{4}{121}$	b $\frac{1}{124}$	c $\frac{8}{124}$
d $\frac{4}{14,641}$	e $\frac{8}{22}$	f 2

5 Find the answer when this fraction is multiplied as shown

$$\left(\frac{7}{9}\right) \cdot \left(\frac{7}{9}\right)$$

a 7	b $\frac{2,401}{6,561}$	c $\frac{49}{81}$
d $\frac{14}{78}$	e $\frac{46}{9}$	f $\frac{14}{18}$

6 Find the answer when this fraction is multiplied as shown

$$\left(\frac{9}{11}\right) \cdot \left(\frac{9}{11}\right)$$

a $\frac{9}{14,641}$	b 9	c $\frac{11}{22}$
d $\frac{84}{14,641}$	e $\frac{84}{1,331}$	f $\frac{81}{121}$

7 Find the answer when this fraction is multiplied as shown

$$\left(\frac{7}{11}\right) \cdot \left(\frac{7}{11}\right)$$

a $\frac{14}{22}$	b $\frac{14}{13}$	c $\frac{343}{11}$
d 14	e $\frac{2,401}{13}$	f $\frac{49}{121}$