Math worksheet on *'Exponents - Fractional Exponents with Integer Base - Explanation to Radical (Level 1)'*. Part of a broader unit on *'Exponents - Fractional Bases and Exponents - Intro'*

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1 Given the hint, what is the fractional exponent the same as?

$$16^{(\frac{1}{2})} \cdot 16^{(\frac{1}{2})} = 16$$
$$16^{(\frac{1}{2})} = ?$$

a	b	c	d	e	f
$\frac{1}{\sqrt{16}}$	$2\sqrt{16}$	$\sqrt{16}$	$\sqrt{4}$	1	$4\sqrt{16}$

2 Given the hint, what is the fractional exponent the same as?

$$36^{(\frac{1}{2})} \cdot 36^{(\frac{1}{2})} = 36$$
$$36^{(\frac{1}{2})} = ?$$

a	b	c	d	e	f
$4\sqrt{36}$	$\sqrt{36}^2$	$\frac{1}{\sqrt{36}}$	$2\sqrt{36}$	1	$\sqrt{36}$

3 Given the hint, what is the fractional exponent the same as?

$$25^{(\frac{1}{2})} \cdot 25^{(\frac{1}{2})} = 25$$
$$25^{(\frac{1}{2})} = ?$$

a	b	c	d	e	f
$3\sqrt{25}$	1	$5\sqrt{25}$	$2\sqrt{25}$	$\sqrt{25}$	$4\sqrt{25}$

4 Given the hint, what is the fractional exponent the same as?

$$4^{(\frac{1}{2})} \cdot 4^{(\frac{1}{2})} = 4$$
$$4^{(\frac{1}{2})} = ?$$

a	b	c	d	e	f
$\sqrt{2}$	$4\sqrt{4}$	1	$\frac{1}{\sqrt{4}}$	$\sqrt{4}$	$\sqrt{4}^2$

5 Given the hint, what is the fractional exponent the same as?

$$9^{(\frac{1}{2})} \cdot 9^{(\frac{1}{2})} = 9$$
$$9^{(\frac{1}{2})} = ?$$

a	b	c	d	e	f
$2\sqrt{9}$	$\frac{1}{\sqrt{9}}$	$\sqrt{3}$	$\sqrt{9}$	1	$4\sqrt{9}$