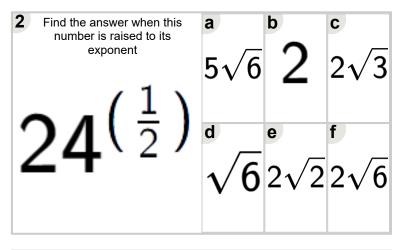Math worksheet on *'Exponents - Fractional Exponents with Non-Square Integer Base - Exponent to Simplified Radical (Level 2)'*. Part of a broader unit on *'Exponents - Negative and Fractional Bases and Exponents'*
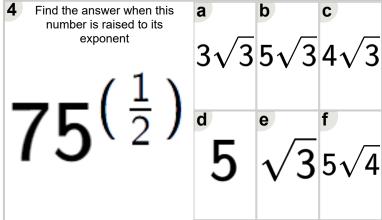
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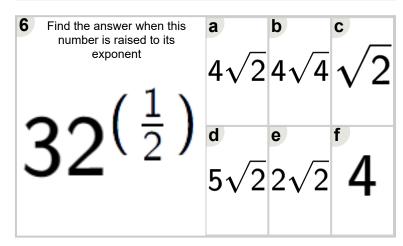
1 Find the answer when this number is raised to its exponent

$$16^{\left(\frac{1}{2}\right)}$$

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

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

$$24^{\left(\frac{1}{2}\right)}$$

a	b	c
$5\sqrt{6}$	2	$2\sqrt{3}$
d	**e**	**f**
$\sqrt{6}$	$2\sqrt{2}$	$2\sqrt{6}$

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

$$108^{\left(\frac{1}{3}\right)}$$

a	b	c
$2\sqrt[3]{4}$	$\sqrt[3]{4}$	$3\sqrt[3]{3}$
d	**e**	**f**
3	$3\sqrt[3]{2}$	$3\sqrt[3]{4}$

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

$$75^{\left(\frac{1}{2}\right)}$$

a	b	c
$3\sqrt{3}$	$5\sqrt{3}$	$4\sqrt{3}$
d	**e**	**f**
5	$\sqrt{3}$	$5\sqrt{4}$

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

$$48^{\left(\frac{1}{4}\right)}$$

a	b	c
$4\sqrt[4]{3}$	$\sqrt[4]{3}$	$3\sqrt[4]{3}$
d	**e**	**f**
$2\sqrt[4]{3}$	2	$5\sqrt[4]{3}$

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

$$32^{\left(\frac{1}{2}\right)}$$

a	b	c
$4\sqrt{2}$	$4\sqrt{4}$	$\sqrt{2}$
d	**e**	**f**
$5\sqrt{2}$	$2\sqrt{2}$	4

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

$$72^{\left(\frac{1}{2}\right)}$$

a	b	c
$\sqrt{2}$	$6\sqrt{2}$	$2\sqrt{2}$
d	**e**	**f**
$6\sqrt{4}$	$6\sqrt{3}$	6