

Mathematics

Fractional Indices 1 Worksheet

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Questions

Evaluate:

- $8^{\frac{1}{3}} = \sqrt[3]{8} = \underline{\hspace{2cm}}$

- $49^{\frac{1}{2}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

- $125^{\frac{1}{3}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

- $225^{\frac{1}{2}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

- $1^{\frac{1}{4}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

- $9^{\frac{1}{2}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$



Questions

2) Write each of the following in index form:

a) $\sqrt{m}$

b) $\sqrt{y}$

c) $\sqrt[3]{z}$

d) $\sqrt[7]{d}$

e) $\sqrt[9]{f}$



Questions

3) Arrange the following in order, smallest first.

a) $25^{\frac{1}{2}}$, $27^{\frac{1}{3}}$, $36^{\frac{1}{2}}$

