

POSITIVE FRACTIONAL INDICES – ALL TYPES

Name: _____

Work out;



Q1. $4^{\frac{3}{2}}$

Q2. $9^{\frac{3}{2}}$

Q3. $25^{\frac{3}{2}}$

Q4. $64^{\frac{3}{2}}$

Q5. $100^{\frac{3}{2}}$

Q6. $16^{\frac{3}{4}}$

Q7. $32^{\frac{3}{5}}$

Q8. $(\frac{1}{27})^{\frac{4}{3}}$

Q9. $(\frac{25}{4})^{1\frac{1}{2}}$

Q10. $16^{\frac{5}{4}}$

Q11. $81^{\frac{3}{4}}$

Q12. $49^{\frac{3}{2}}$

Find x if

(i) $16^{\frac{x}{4}} = 32$

(ii) $27^{\frac{5}{x}} = 81$