1. (a) Write down the value of $\left(\frac{16}{9}\right)^{1}$
(b) Write down the value of $6^{1}$
2. (a) Write down the value of $16^{-1}$
(b) Write down the reciprocal of 3
3. (a) Complete this

$$
\sqrt{100}=100^{\cdots}=\ldots
$$

(b) Write down the value of $25^{\frac{1}{2}}$
4. (a) Write down the reciprocal of $\frac{1}{25}$
(b) Write down the reciprocal of $\frac{25}{9}$
(c) Write down the value of $\left(\frac{1}{49}\right)^{-1}$
(d) Write down the value of $\left(\frac{4}{9}\right)^{-1}$
5. (a) Write down the value of $\left(\frac{3}{8}\right)^{0}$
(b) Write down the value of $64^{0}$
6. (a) Evaluate $6^{-2}$ \{Questions cover knowledge of 2 to 10 squared and 2 to 5 cubed\}
(b) Write down the value of $4^{-3}$
7. (a) Write down the value of $64^{\frac{1}{2}}$
(b) Evaluate $144^{\frac{1}{2}}$
8. (a) Write down the value of $\left(\frac{25}{64}\right)^{\frac{1}{2}}$
(b) Evaluate $\left(\frac{36}{49}\right)^{\frac{1}{2}}$
9. Write down the value of $\left(\frac{4}{9}\right)^{-2}$
10. $\quad 3^{n}=\frac{1}{9} \quad$ OR $\quad 2^{p}=32$
(a) Write down the value of $n$
(b) Write down the value of $p$
11. $2^{7} \div 2^{q}=2^{4} \quad$ OR $\quad 2^{4} \times 2^{x}=2^{9}$
(a) Work out the value of $q$
(b) Write down the value of $x$
12. (a) Evaluate $64^{-\frac{1}{2}}$
(b) Evaluate $64^{-\frac{1}{3}}$
(c) Evaluate $\left(\frac{125}{64}\right)^{\frac{1}{3}}$
13. (a) Evaluate $\left(\frac{9}{16}\right)^{\frac{3}{2}}$ \{number OR fraction to the $\left.\pm \frac{2}{3} \mathrm{OR} \pm \frac{3}{2}\right\}$
(b) Find the value of $\left(\frac{100}{9}\right)^{-\frac{3}{2}}$
(c) Find the value of $8^{\frac{2}{3}}$
14. $3^{2} \div 3^{y}=3^{5} \quad$ OR $\quad 2^{5} \times 2^{p}=2^{2}$
(a) Work out the value of $y$
(b) Write down the value of $p$

