Year 10 Mathematics
Indices Practice Test 1

Name_____

1. Express in index form $3 \times 3 \times 3 \times 3$
2. Evaluate 3^2
3. Simplify $3^2 \times 3^5$
4. Simplify $a^3 \times a^5$
5. Simplify $a^{12} \div a^2$
6. Express $(a^3)^4$ in simplest index form
7. Simplify $7a^5 \times 3ab^2$
8. Simplify $(2a^2)^4$
9. $24a^5b^2 \div 8a^3b^2$
10. Evaluate 4^0
11. Evaluate $a^0 \times 4$
12. Evaluate 4^{-1}
13. Write $\sqrt{5}$ in index form
14. Write $\sqrt[3]{16}$ in index form
15. Find the value of $9^{\frac{1}{2}}$

16 Evaluate $8^{\frac{1}{3}}$

17. Evaluate $\sqrt{3}$ correct to 3 decimal places