

National 5 Homework		
Numerical Skills		Using Indices
Answers		

$$1. \quad a^m \times a^n = a^{m+n} ; a^m \div a^n = a^{m-n} ; (a^m)^n = a^{mn}$$

$$(\sqrt[n]{a})^m = a^{m/n} ; a^0 = 1 ; a^{-m} = \frac{1}{a^m}$$

$$2. \quad 30x^5.$$

$$3. \quad \frac{20}{p^2}$$

$$4. \quad 2a^2 + 5$$

$$5. \quad 16.$$

$$6. \quad 6 - 15p$$

$$7. \quad a^6b^9$$

$$8. \quad \text{Proof}$$

$$9. \quad 10a^4$$

$$10. \quad 3$$

$$11. \quad \frac{6}{a^2}$$

$$12. \quad \frac{1}{27}$$