**Indices & Powers Problem Sheet**

1. Without using a calculator write down the value of
2. Find the square of the following:
3. Show that the square of is 50.
4. Without using a calculator find
5. Write the following in their simplest surd form
6. By multiplying numerator and denominator by , show that
7. Use a calculator to evaluate
8. Identify the index and base in the following expressions.
9. Evaluate
10. Write out fully
11. Write each of the following using index notation:
    * 1. 7
12. Evaluate without using a calculator. Leave any fractions in fractional form.
13. Simplify
14. Show that is equivalent to whereas is equivalent to .
15. Write each of the following expressions with a single index:
16. Remove the brackets from
17. Simplify