**Homework –** Stick the worksheet into your book neatly and answer these questions in your book.

|  |  |  |
| --- | --- | --- |
| **Literacy**  Can you write a definition for the following words?  Surd  Reciprocal  Irrational number | **Research**  Why can’t you have the square root of a negative number?  [https://qph.is.quoracdn.net/main-qimg-08572ceea8ad35422a6ce6fe0c298405?convert_to_webp=true](https://www.quora.com/How-could-you-illustrate-visualize-imaginary-numbers) | **Memory**  A common estimate for Pi is 3.14 but the decimal goes on and on forever and ever. It is an irrational number.  [http://cdn.business2community.com/wp-content/uploads/2014/03/pi.jpg](http://www.google.co.uk/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRxqFQoTCLKrm77vjMgCFQFVFAod4U4GDw&url=http://www.hypeorlando.com/gender-bender/2015/03/14/pi-day/&bvm=bv.103388427,d.ZGU&psig=AFQjCNGVcB-zsky3wpmZ3UyZh5pZliv8vQ&ust=1443087893183519)  When estimating surds consider which square numbers it is between |
| **Skills Practice**  Estimate the following  1.  2.  3.  4.  Find the reciprocal of the following  1.  2.  3. 8 4. | | **Stretch and Challenge**  Put the following numbers in ascending order    , and the reciprocal of |