Practice Arithmetic Expression Problems

What is the data type and result of the following Java expressions? If an expression cannot be evaluated, indicate so by writing INVALID in the corresponding boxes. Parentheses are used when the operations involves different levels of precedence.

Feel free to use your book but you should try not to use a calculator. The process is more important than the right answer.

|  |  |  |
| --- | --- | --- |
| Java Expression | Data Type of Result | Result Value |
| 7 + 3 – 5 |  |  |
| ( 10 % 6 ) \* 2.5 |  |  |
| “Whatever!” + 3 + 7 |  |  |
| ‘c’ + 1 |  |  |
| 20 / 8.0 \* 7 |  |  |
| ( 17 / 4 ) + ( 16 / 2.0)  |  |  |
| 3 + 7 + “Whatever!” |  |  |
| 4 % 12 / 3 \* 2 |  |  |
| double a;a = (int) (18 / 4.0);13 / a |  |  |