The table below shows the number of bugs in software recorded by 120 scientists during a test phase.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 474 | 428 | 447 | 483 | 435 | 465 | 498 | 452 | 418 | 483 | 440 | 458 |
| 474 | 430 | 447 | 407 | 501 | 466 | 498 | 453 | 419 | 485 | 441 | 459 |
| 475 | 430 | 448 | 407 | 436 | 468 | 500 | 453 | 420 | 486 | 442 | 459 |
| 476 | 430 | 449 | 408 | 502 | 468 | 502 | 453 | 421 | 488 | 442 | 460 |
| 477 | 431 | 450 | 410 | 436 | 469 | 502 | 454 | 421 | 489 | 443 | 460 |
| 478 | 432 | 450 | 412 | 438 | 470 | 505 | 455 | 423 | 490 | 444 | 462 |
| 479 | 432 | 451 | 413 | 438 | 471 | 508 | 455 | 424 | 493 | 444 | 462 |
| 481 | 433 | 451 | 413 | 438 | 471 | 509 | 456 | 424 | 494 | 445 | 462 |
| 482 | 433 | 451 | 415 | 509 | 472 | 511 | 457 | 425 | 495 | 446 | 463 |
| 482 | 434 | 452 | 416 | 440 | 473 | 515 | 457 | 426 | 497 | 447 | 464 |

Use the data to

1. Extract a frequency distribution table with the first class as 401-420.
2. Compute the mean, mode and median number of bugs
3. Compute the standard deviation and recommend the minimum and maximum number of bugs to be used in decisions making.
4. Assuming that it costs 200/= to rectify each bug identified. Recommend the budget amount that should be set aside to rectify the identified bugs
5. How would you use the measures above to aid decisions in your day to day work at your current work place? ( indicate your work place and position or your former work place and position)
6. .