

For each estimation problem, the exact value (rounded to two decimal places) appears in square brackets.

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|---|--|--|---|
| (1) -1019                                     | (23) 14                                    | (43) 5858                                    | (62) 3                                    |
| (2) 180                                       | (24) 8                                     | (44) 572                                     | (63) 25                                   |
| (3) $1\frac{23}{24}$ ; $\frac{47}{24}$        | (25) 2534506                               | (45) 11663                                   | (64) 8                                    |
| (4) $174\frac{2}{9}$                          | (26) 10192                                 | (46) 56                                      | (65) 491                                  |
| (5) 784                                       | (27) 10                                    | (47) 247                                     | (66) 22                                   |
| (6) 4   | (28) $\frac{40}{3}$ ; $13\frac{1}{3}$      | (48) 150                                     | (67) -10                                  |
| (7) $6\frac{1}{4}$ ; 6.25; $\frac{25}{4}$     | (29) 2                                     | (49) 1260                                    | (68) 35                                   |
| (8) 39.9; $39\frac{9}{10}$ ; $\frac{399}{10}$ | *(30) 680 - 751<br>[715.56]                | *(50) 366 - 403<br>[384.63]                  | (69) $-\frac{2}{5}$ ; -.4                 |
| (9) 169                                       | (31) 169                                   | (51) $\frac{13}{5}$ ; $2\frac{3}{5}$ ; 2.6   | *(70) 21227 - 23460<br>[22343.25]         |
| *(10) 1336 - 1476<br>[1405.73]                | (32) .3; $\frac{3}{10}$                    | (52) 3                                       | (71) $\frac{23}{49}$                      |
| (11) 1444                                     | (33) 135                                   | (53) 75                                      | (72) $\frac{19}{12}$ ; $1\frac{7}{12}$    |
| (12) 15.12                                    | (34) $52\frac{25}{42}$ ; $\frac{2209}{42}$ | (54) $-\frac{8}{5}$ ; $-1\frac{3}{5}$ ; -1.6 | (73) -16                                  |
| (13) $17\frac{1}{19}$                         | (35) 153                                   | (55) $\frac{14}{9}$ ; $1\frac{5}{9}$         | (74) 10                                   |
| (14) -5.8; $-5\frac{4}{5}$ ; $-\frac{29}{5}$  | (36) 96                                    | (56) 25                                      | (75) 49                                   |
| (15) 1221                                     | (37) 196                                   | (57) 3                                       | (76) 6                                    |
| (16) 1295                                     | (38) 27000                                 | (58) $\frac{1}{5}$ ; .2                      | (77) 9                                    |
| (17) $215\frac{5}{6}$                         | (39) 6.44                                  | (59) $74\frac{19}{28}$                       | (78) 121                                  |
| (18) 186                                      | *(40) 164 - 180<br>[172.36]                | *(60) 231 - 255<br>[243]                     | (79) $\frac{7}{2}$ ; $3\frac{1}{2}$ ; 3.5 |
| (19) 6  | (41) 23                                    | (61) $-\frac{1}{2}$ ; -.5                    | *(80) 5715 - 6316<br>[6015.63]            |
| *(20) 406053 - 448795<br>[427424]             | (42) 499849                                |  |   |