

Smart Computing

Advanced — ANSWER KEY

Mix the tricks — regroup, round, cancel.

Think: Reorder freely: pair round numbers, cancel opposites, then add what's left.

1. Compute in a smart way. Look for pairs that make a round number, or that cancel.

1) $63 + 55 + 37 - 55 = 100$

↳ $63 + 37 = 100$; the 55s cancel

3) $39 + 17 + 111 - 17 = 150$

↳ $39 + 111 = 150$; the 17s cancel

5) $66 + 16 + 34 - 16 = 100$

↳ $66 + 34 = 100$; the 16s cancel

7) $57 + 52 + 43 - 52 = 100$

↳ $57 + 43 = 100$; the 52s cancel

9) $60 + 23 + 90 - 23 = 150$

↳ $60 + 90 = 150$; the 23s cancel

11) $73 + 17 + 127 - 17 = 200$

↳ $73 + 127 = 200$; the 17s cancel

13) $47 + 23 + 53 - 23 = 100$

↳ $47 + 53 = 100$; the 23s cancel

15) $27 + 15 + 73 - 15 = 100$

↳ $27 + 73 = 100$; the 15s cancel

17) $127 + 20 + 23 - 20 = 150$

↳ $127 + 23 = 150$; the 20s cancel

19) $126 + 14 + 74 - 14 = 200$

↳ $126 + 74 = 200$; the 14s cancel

21) $69 + 45 + 81 - 45 = 150$

↳ $69 + 81 = 150$; the 45s cancel

23) $67 + 67 + 83 - 67 = 150$

↳ $67 + 83 = 150$; the 67s cancel

25) $43 + 39 + 57 - 39 = 100$

↳ $43 + 57 = 100$; the 39s cancel

27) $144 + 47 + 56 - 47 = 200$

↳ $144 + 56 = 200$; the 47s cancel

29) $40 + 74 + 60 - 74 = 100$

↳ $40 + 60 = 100$; the 74s cancel

2) $133 + 64 + 67 - 64 = 200$

↳ $133 + 67 = 200$; the 64s cancel

4) $97 + 28 + 103 - 28 = 200$

↳ $97 + 103 = 200$; the 28s cancel

6) $180 + 18 + 20 - 18 = 200$

↳ $180 + 20 = 200$; the 18s cancel

8) $73 + 54 + 77 - 54 = 150$

↳ $73 + 77 = 150$; the 54s cancel

10) $86 + 37 + 114 - 37 = 200$

↳ $86 + 114 = 200$; the 37s cancel

12) $97 + 63 + 53 - 63 = 150$

↳ $97 + 53 = 150$; the 63s cancel

14) $45 + 42 + 55 - 42 = 100$

↳ $45 + 55 = 100$; the 42s cancel

16) $146 + 15 + 54 - 15 = 200$

↳ $146 + 54 = 200$; the 15s cancel

18) $60 + 56 + 90 - 56 = 150$

↳ $60 + 90 = 150$; the 56s cancel

20) $27 + 14 + 123 - 14 = 150$

↳ $27 + 123 = 150$; the 14s cancel

22) $119 + 57 + 31 - 57 = 150$

↳ $119 + 31 = 150$; the 57s cancel

24) $79 + 74 + 21 - 74 = 100$

↳ $79 + 21 = 100$; the 74s cancel

26) $76 + 35 + 24 - 35 = 100$

↳ $76 + 24 = 100$; the 35s cancel

28) $79 + 68 + 21 - 68 = 100$

↳ $79 + 21 = 100$; the 68s cancel

30) $78 + 53 + 122 - 53 = 200$

↳ $78 + 122 = 200$; the 53s cancel