

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) $30 + 12 + 170 - 12 = 200$

↳ $30 + 170 = 200$; the 12s cancel

3) $47 + 15 + 53 - 15 = 100$

↳ $47 + 53 = 100$; the 15s cancel

5) $91 + 59 + 59 - 59 = 150$

↳ $91 + 59 = 150$; the 59s cancel

7) $165 + 21 + 35 - 21 = 200$

↳ $165 + 35 = 200$; the 21s cancel

9) $29 + 16 + 171 - 16 = 200$

↳ $29 + 171 = 200$; the 16s cancel

11) $100 + 48 + 50 - 48 = 150$

↳ $100 + 50 = 150$; the 48s cancel

13) $57 + 34 + 43 - 34 = 100$

↳ $57 + 43 = 100$; the 34s cancel

15) $32 + 69 + 68 - 69 = 100$

↳ $32 + 68 = 100$; the 69s cancel

17) $115 + 68 + 35 - 68 = 150$

↳ $115 + 35 = 150$; the 68s cancel

19) $35 + 31 + 65 - 31 = 100$

↳ $35 + 65 = 100$; the 31s cancel

21) $30 + 68 + 70 - 68 = 100$

↳ $30 + 70 = 100$; the 68s cancel

23) $79 + 15 + 71 - 15 = 150$

↳ $79 + 71 = 150$; the 15s cancel

25) $55 + 11 + 145 - 11 = 200$

↳ $55 + 145 = 200$; the 11s cancel

27) $46 + 36 + 154 - 36 = 200$

↳ $46 + 154 = 200$; the 36s cancel

29) $59 + 69 + 91 - 69 = 150$

↳ $59 + 91 = 150$; the 69s cancel

2) $67 + 12 + 33 - 12 = 100$

↳ $67 + 33 = 100$; the 12s cancel

4) $31 + 60 + 69 - 60 = 100$

↳ $31 + 69 = 100$; the 60s cancel

6) $72 + 45 + 28 - 45 = 100$

↳ $72 + 28 = 100$; the 45s cancel

8) $53 + 73 + 147 - 73 = 200$

↳ $53 + 147 = 200$; the 73s cancel

10) $73 + 62 + 77 - 62 = 150$

↳ $73 + 77 = 150$; the 62s cancel

12) $30 + 34 + 120 - 34 = 150$

↳ $30 + 120 = 150$; the 34s cancel

14) $109 + 71 + 41 - 71 = 150$

↳ $109 + 41 = 150$; the 71s cancel

16) $64 + 51 + 86 - 51 = 150$

↳ $64 + 86 = 150$; the 51s cancel

18) $26 + 22 + 124 - 22 = 150$

↳ $26 + 124 = 150$; the 22s cancel

20) $49 + 37 + 51 - 37 = 100$

↳ $49 + 51 = 100$; the 37s cancel

22) $39 + 33 + 61 - 33 = 100$

↳ $39 + 61 = 100$; the 33s cancel

24) $140 + 74 + 60 - 74 = 200$

↳ $140 + 60 = 200$; the 74s cancel

26) $24 + 70 + 76 - 70 = 100$

↳ $24 + 76 = 100$; the 70s cancel

28) $107 + 30 + 43 - 30 = 150$

↳ $107 + 43 = 150$; the 30s cancel

30) $65 + 43 + 85 - 43 = 150$

↳ $65 + 85 = 150$; the 43s cancel