

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) $20 + 75 + 130 - 75 = 150$

↳ $20 + 130 = 150$; the 75s cancel

3) $34 + 22 + 66 - 22 = 100$

↳ $34 + 66 = 100$; the 22s cancel

5) $50 + 56 + 50 - 56 = 100$

↳ $50 + 50 = 100$; the 56s cancel

7) $111 + 19 + 89 - 19 = 200$

↳ $111 + 89 = 200$; the 19s cancel

9) $76 + 57 + 24 - 57 = 100$

↳ $76 + 24 = 100$; the 57s cancel

11) $67 + 71 + 133 - 71 = 200$

↳ $67 + 133 = 200$; the 71s cancel

13) $77 + 65 + 23 - 65 = 100$

↳ $77 + 23 = 100$; the 65s cancel

15) $66 + 72 + 34 - 72 = 100$

↳ $66 + 34 = 100$; the 72s cancel

17) $43 + 32 + 57 - 32 = 100$

↳ $43 + 57 = 100$; the 32s cancel

19) $151 + 64 + 49 - 64 = 200$

↳ $151 + 49 = 200$; the 64s cancel

21) $163 + 61 + 37 - 61 = 200$

↳ $163 + 37 = 200$; the 61s cancel

23) $154 + 27 + 46 - 27 = 200$

↳ $154 + 46 = 200$; the 27s cancel

25) $145 + 23 + 55 - 23 = 200$

↳ $145 + 55 = 200$; the 23s cancel

27) $98 + 53 + 52 - 53 = 150$

↳ $98 + 52 = 150$; the 53s cancel

29) $30 + 25 + 70 - 25 = 100$

↳ $30 + 70 = 100$; the 25s cancel

2) $156 + 16 + 44 - 16 = 200$

↳ $156 + 44 = 200$; the 16s cancel

4) $53 + 52 + 47 - 52 = 100$

↳ $53 + 47 = 100$; the 52s cancel

6) $172 + 35 + 28 - 35 = 200$

↳ $172 + 28 = 200$; the 35s cancel

8) $96 + 35 + 54 - 35 = 150$

↳ $96 + 54 = 150$; the 35s cancel

10) $21 + 11 + 79 - 11 = 100$

↳ $21 + 79 = 100$; the 11s cancel

12) $34 + 34 + 116 - 34 = 150$

↳ $34 + 116 = 150$; the 34s cancel

14) $75 + 35 + 25 - 35 = 100$

↳ $75 + 25 = 100$; the 35s cancel

16) $76 + 48 + 74 - 48 = 150$

↳ $76 + 74 = 150$; the 48s cancel

18) $73 + 55 + 77 - 55 = 150$

↳ $73 + 77 = 150$; the 55s cancel

20) $178 + 56 + 22 - 56 = 200$

↳ $178 + 22 = 200$; the 56s cancel

22) $51 + 28 + 49 - 28 = 100$

↳ $51 + 49 = 100$; the 28s cancel

24) $69 + 40 + 31 - 40 = 100$

↳ $69 + 31 = 100$; the 40s cancel

26) $152 + 14 + 48 - 14 = 200$

↳ $152 + 48 = 200$; the 14s cancel

28) $125 + 10 + 75 - 10 = 200$

↳ $125 + 75 = 200$; the 10s cancel

30) $78 + 56 + 22 - 56 = 100$

↳ $78 + 22 = 100$; the 56s cancel