

Sum and Difference of Integers #2 (Addition and Subtraction of Positive and Negative "Whole" Numbers)

Try 1-6, then check answers. Learn from mistakes, then try 7-12, etc.

1)  $-9 + 4 = -5$

2)  $-3 + 10 = 7$

3)  $-2 - 7 = -9$

4)  $3 - 5 = -2$

5)  $-6 - 2 = -8$

6)  $8 - 5 = 3$

7)  $6 - 10 = -4$

8)  $-4 + 7 = 3$

9)  $-3 - 5 = -8$

10)  $-2 + 8 = 6$

11)  $7 - 3 = 4$

12)  $-9 + 6 = -3$

13)  $-7 - 5 = -12$

14)  $-6 + 9 = 3$

15)  $-8 + 3 = -5$

16)  $2 - 9 = -7$

17)  $-4 - 6 = -10$

18)  $-2 + 7 = 5$

Try 19-22, then check answers. Learn from mistakes, then try 23-26.

19)  $-27 - 39 = 39$

Avoid confusion; do not write operation sign or signs for numbers; only the answer needs a sign.

20)  $-83 + 19 = 83$

$\frac{19}{-64}$

21)  $-25 + 73 = 73$

$\frac{25}{48}$

22)  $41 - 95 = 95$

$\frac{41}{-54}$

23)  $55 - 63 = 583$

$\frac{55}{-8}$

24)  $38 - 79 = 79$

$\frac{38}{-41}$

25)  $-71 + 93 = 93$

$\frac{71}{22}$

26)  $-38 - 59 = 59$

$\frac{38}{-97}$

Try 27-30, then check answers. Learn from mistakes, then try 31-34, etc.

27)  $-7 - (+2) = -7 - 2 = -9$

28)  $5 - (-8) = 5 + 8 = 13$

29)  $-6 - (-4) = -6 + 4 = -2$

30)  $-9 + (-1) = -9 - 1 = -10$

31)  $5 - (-2) = 5 + 2 = 7$

32)  $8 + (-13) = 8 - 13 = -5$

33)  $-7 - (-4) = -7 + 4 = -3$

34)  $5 - (-9) = 5 + 9 = 14$

35)  $-6 - (-9) = -6 + 9 = 3$

36)  $-2 - (-7) = -2 + 7 = 5$

37)  $4 + (-9) = 4 - 9 = -5$

38)  $-5 + (-2) = -5 - 2 = -7$

Try four, check, learn, repeat

39)  $-73 - (+25) = 73 - 25$

$$\begin{array}{r} 73 \\ - 25 \\ \hline 48 \end{array}$$

40)  $19 - (-48) = 19 + 48$

$$\begin{array}{r} 48 \\ 19 \\ \hline 67 \end{array}$$

41)  $-83 - (-37) = -83 + 37$

$$\begin{array}{r} 37 \\ -83 \\ \hline -46 \end{array}$$

42)  $-24 + (-57) = -24 - 57$

$$\begin{array}{r} 57 \\ 24 \\ \hline -81 \end{array}$$

43)  $63 + (-38) = 63 - 38$

$$\begin{array}{r} 38 \\ -63 \\ \hline 25 \end{array}$$

44)  $-72 - (-45) = -72 + 45$

$$\begin{array}{r} 45 \\ -72 \\ \hline -27 \end{array}$$

45)  $-94 - (+57) = -94 - 57$

$$\begin{array}{r} 57 \\ -94 \\ \hline -151 \end{array}$$

46)  $21 + (-72) = 21 - 72$

$$\begin{array}{r} 72 \\ 21 \\ \hline -51 \end{array}$$

## Sum and Difference of Integers #2

(Addition and Subtraction of Positive and Negative "Whole" Numbers)

47a) (On the answer key, I solve this using the order of operations, strictly.)

Add or subtract from left to right (the first two), then bring the rest down, repeat.

$$\begin{array}{r} -9 + 3 - 7 - 5 + 8 \\ \hline -6 - 7 - 5 + 8 \\ -13 - 5 + 8 \\ -18 + 8 \\ \hline -10 \end{array}$$

47b) (Same as 47a, but I solve it the way that I prefer, which is allowed since the result is always the same.)

Add all the negatives, add all the positives, do one subtraction.

$$\begin{array}{r} 9 \quad 3 \quad | \quad 21 \\ 7 \quad 8 \quad | \quad 11 \\ \hline 5 \quad 11 \quad | \quad \underline{-10} \\ \hline -21 \end{array}$$

48) ~~7 - 4 + 9 - 3 - 8 + 6~~

$$\begin{array}{r} 4 \quad 7 \quad | \quad 18'2 \\ 3 \quad 9 \quad | \quad 15 \\ \hline 8 \quad 6 \quad | \quad \underline{-10} \\ \hline -15 \quad 22 \end{array}$$

49) ~~-8 + 3 + 6 - 1 - 9 + 5~~

$$\begin{array}{r} 8 \quad 3 \quad | \quad 24 \\ 7 \quad 6 \quad | \quad 14 \\ 9 \quad 5 \quad | \quad \underline{-10} \\ \hline -24 \quad 14 \end{array}$$

50) ~~34 - 53 + 19 + 42 - 71~~

$$\begin{array}{r} 53 \quad 34 \quad | \quad 0'4'4 \\ 71 \quad 19 \quad | \quad 95 \\ \hline -124 \quad 42 \quad | \quad \underline{-29} \\ \hline 95 \end{array}$$

51) ~~-52 + 77 - 45 - 23 + 68~~

$$\begin{array}{r} 52 \quad 77 \quad | \quad 145 \\ 45 \quad 68 \quad | \quad 120 \\ 23 \quad 145 \quad | \quad \underline{25} \\ \hline -120 \end{array}$$

52) ~~6 - (-9) + (-8) - 5 - (+7)~~

$$\begin{array}{r} 6 + 9 - 8 - 5 - 7 \\ \hline 8 \quad 6 \quad | \quad 20 \\ 5 \quad 9 \quad | \quad 15 \\ \hline 7 \quad 15 \quad | \quad \underline{-5} \\ \hline -20 \end{array}$$

53) ~~-5 + (-8) - (-9) - 2 + 7~~

$$\begin{array}{r} -5 - 8 + 9 - 2 + 7 \\ \hline 5 \quad 9 \quad | \quad 16 \\ 8 \quad 7 \quad | \quad 15 \\ \hline 2 \quad 16 \quad | \quad 1 \\ \hline -15 \end{array}$$

54) ~~7 - 6 - (-2) - (+8) + (-5)~~

$$\begin{array}{r} 7 - 6 + 2 - 8 - 5 \\ \hline 6 \quad 7 \quad | \quad 19 \\ 8 \quad 2 \quad | \quad 9 \\ 5 \quad 9 \quad | \quad \underline{-10} \\ \hline -19 \end{array}$$

55) ~~-39 - (+27) + (-58) - (-23) - 14~~

$$\begin{array}{r} -39 - 27 - 58 + 23 - 14 \\ \hline 239 \quad 27 \quad 58 \quad 23 \quad | \quad 138 \\ 27 \quad 58 \quad | \quad 23 \quad | \quad 23 \\ \hline 14 \quad | \quad \underline{-115} \\ \hline -138 \end{array}$$

56) ~~72 - (-36) + (-68) + 45 + (-27) - 12~~

$$\begin{array}{r} 72 + 36 - 68 + 45 - 27 - 12 \\ \hline 68 \quad 72 \quad | \quad 15'3 \\ 27 \quad 36 \quad | \quad 107 \\ 12 \quad 45 \quad | \quad \underline{46} \\ \hline -107 \quad 153 \end{array}$$