

Pre-algebra
Skill-BUILDER # I – 1
Adding Integers

The following rules apply for integer addition:

$(+) + (+) = (+)$	positive + positive = positive
$(-) + (-) = (-)$	negative + negative = negative
$(+) + (-)$ or $(-) + (+)$	subtract the "smaller" from the "larger" and take the sign of the "larger"

Examples

1) $12 + 56 = 68$

2) $-8 + (-12) = -20$

3) $15 + (-6) = 9$

4) $8 + (-25) = -17$

5) When adding more than two integers one can work from left to right:

$$\begin{aligned} & 4 + \underbrace{(-2) + (-9)} + 13 \\ = & \quad \underbrace{2 + (-9)} + 13 \\ = & \quad \quad -7 + 13 \\ = & \quad \quad \quad 6 \end{aligned}$$

OR, one can add all the positive integers and all the negatives first:

$$\begin{aligned} & 4 + (-2) + (-9) + 13 \\ = & \underbrace{4 + 13} + (-2) + (-9) \\ = & 17 + (-11) \\ = & \quad 6 \end{aligned}$$

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Add:

1) $-8 + 6$

2) $-12 + 15$

3) $7 + (-16)$

4) $13 + (-6)$

5) $4 + 11$

6) $9 + 12$

7) $-6 + (-5)$

8) $-9 + (-7)$

9) $24 + (-12)$

10) $-18 + 25$

11) $-30 + (-6)$

12) $-28 + (-32)$

13) $-5 + (-4) + 7 + (-1)$

14) $8 + (-4) + 6 + (-10)$

15) $-1 + (-2) + (-3) + 13 + (-6)$

16) $-9 + 10 + (-6) + (-1) + 3$

17) $8 + (-4) + (-8) + 2 + (-1) + (-5)$

18) $14 + 2 + (-6) + (-9) + 1 + (-2)$

19) $-12 + 10 + (-8) + 9 + (-7) + 6$

20) $13 + (-15) + (-12) + 10 + (-2) + (-3)$

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Answer Key:

1) -2

2) 3

3) -9

4) 7

5) 15

6) 21

7) -11

8) -16

9) 12

10) 7

11) -36

12) -60

13) -3

14) 0

15) 1

16) -3

17) -8

18) 0

19) -2

20) -9