

**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"<br>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:

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

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

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

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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)  $-9$