

1. Find each sum.

a.  $-3 + (-5)$

b.  $-4 + 2$

c.  $6 + (-3)$

d.  $3 + (-5)$

e.  $-10 + 14$

f.  $5 + (-8)$

g.  $-3 + (-3)$

h.  $15 + (-7)$

i.  $-1 + (-9)$

j.  $-17 + 6$

## KEYS

**Remember**

- To add integers with the same sign, add their absolute values. Give the result the same sign as the integers.
- To add integers with different signs, subtract their absolute values. Give the result the same sign as the integer with the greater absolute value.

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a)  $-3 + (-5)$

$-3 + (-5)$       Both numbers are negative, so the sum is negative.

$-3 + (-5) = -8$       Add  $|-3|$  and  $|-5|$ .

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b)  $-4 + 2$

$-4 + 2$       The sum is negative because  $|-4| > |2|$ .

$-4 + 2 = -2$       Subtract  $|2|$  from  $|-4|$ .

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c)  $6 + (-3)$

$6 + (-3)$       The sum is positive because  $|6| > |-3|$ .

$6 + (-3) = 3$       Subtract  $|-3|$  from  $|6|$ .

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d)  $3 + (-5)$

$3 + (-5)$       The sum is negative because  $|-5| > |3|$ .

$3 + (-5) = -2$       Subtract  $|3|$  from  $|-5|$ .

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e)  $-10 + 14$

$$-10 + 14 \quad \text{The sum is positive because } |14| > |10|.$$

$$-10 + 14 = 4 \quad \text{Subtract } |-10| \text{ from } |14|.$$

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f)  $5 + (-8)$

$$5 + (-8) \quad \text{The sum is negative because } |-8| > |5|.$$

$$5 + (-8) = -3 \quad \text{Subtract } |5| \text{ from } |-8|.$$

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g)  $-3 + (-3)$

$$-3 + (-3) \quad \text{The sum is negative because both numbers are negative.}$$

$$-3 + (-3) = -6 \quad \text{Add } |-3| \text{ to } |-3|.$$

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h)  $15 + (-7)$

$$15 + (-7) \quad \text{The sum is positive because } |15| > |-7|.$$

$$15 + (-7) = 8 \quad \text{Subtract } |-7| \text{ from } |15|.$$

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i)  $-1 + (-9)$

$$-1 + (-9) \quad \text{The sum is negative because both numbers are negative.}$$

$$-1 + (-9) = -10 \quad \text{Add } |-1| \text{ to } |-9|.$$

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j)  $-17 + 6$

$$-17 + 6 \quad \text{The sum is negative because } |-17| > |6|.$$

$$-17 + 6 = -11 \quad \text{Subtract } |6| \text{ from } |-17|.$$

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