EXAMPLE Evaluate 123-7+75-13+25.
Subtracting 7 then subtracting 13 is the same as subtracting 20 . Adding 75 then adding 25 is the same as adding 100.

So, $123-7+75-13+25$ is equal to $123-20+100$.


PRACTICE $\mid$ Fill in the blanks to solve each problem below.

87. $65-8+35-2$


$$
=\square
$$

90. $50-12+20-18$

$=\square$
91. $134-19+33-21+17$

$=\square$
52
92. $7+81-11-33+9$


$$
=\square
$$

89. $125+47-123+53$ $=125-123+\square$
$\square$
90. $19+15+15-6-6$


$$
=\square
$$

95. $80-19-11+22+23$


Fill the boxes below to make each equation true.
96. $28+19-\square=28$
97. $789+\square-789=987$
98. $64-27+\square=65$
99. $113-\square+113=200$
100. $226-77+\square=224$
101. $75-28+75-\square=100$
102. $77+144-12+\square-145=77$
103. $200-26-\square+27+84=203$


In an Equation Path puzzle, the goal is to trace a path through the grid to create a true equation. Start in the top-left corner and end with the bottom-right number outside the grid.

- The path can only go up, down, left, or right. (No diagonals.)
- The path may not cross the same square twice.


## EXAMPLE

Solve the Equation Path puzzle on the right.

| 10 | +3 | -3 |
| :--- | :--- | :--- |
| +3 | +2 | +20 |
| -2 | +30 | -2 |$=60$

To get from 10 to 60 , we need to add a total of $60-10=50$. To add 50 , our path must cross +20 and +30 . The other squares in our path must cancel.

The only way to do this is shown below.

| 10 | +3 | -3 |
| :--- | :--- | :--- |
| +3 | +2 | +20 |
| -2 | +30 | -2 |$=60$

We check our work:
$10(3)-(3)+20+(2)+30-20 . v$

PRACTICE Solve each Equation Path puzzle below.
104.

| 15 | +1 | +1 |
| :---: | :---: | :---: |
| +1 | +10 | +1 |
| +10 | +1 | +10 |

105. 

| 14 | -1 | -2 |
| :---: | :---: | :---: |
| +10 | -2 | -3 |
| +20 | +30 | -4 |$=70$

106. 

| 100 | +17 | -31 |
| :--- | :--- | :--- |
| +3 | -5 | +3 |
| +31 | -17 | -5 |$=90$

107. 

| 26 | +13 | -25 |
| :---: | :---: | :---: |
| -13 | +25 | +3 |
| +3 | +3 | +3 |$=32$

108. 

| 40 | +2 | -8 |
| :---: | :---: | :---: |
| -40 | +8 | +10 |
| +10 | -2 | +40 |

109. 

| 6 | +2 | -1 |
| :---: | :---: | :---: |
| +8 | -8 | +4 |
| -2 | +16 | -4 |

110. 


111.

| 19 | +2 | +2 |
| :--- | :--- | :--- |
| +2 | +4 | -6 |
| -6 | -6 | -6 |

