

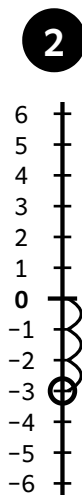
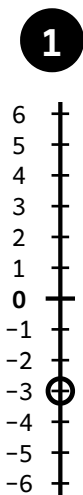


Learn a new puzzle

# Integer Puzzles

Numbers below zero have a minus sign. Plus goes up. Minus goes down.

Trick: **Start, then hop**

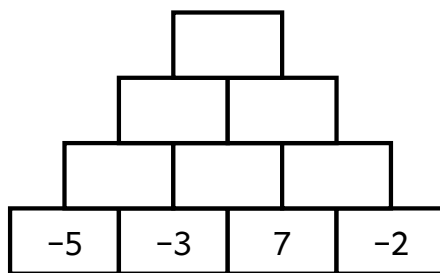


$-3 + 5$ : start at  $-3$ , below zero.

Hop up. 3 hops reach 0.

2 more hops:  $-3 + 5 = 2$ .

Try it



The answer is with the other answers.

**Talk about it:** Ask: Is  $-5$  bigger or smaller than  $-2$ ? Show it on the line.



**1 Integer Puzzles** Write the numbers in order, from smallest to largest.



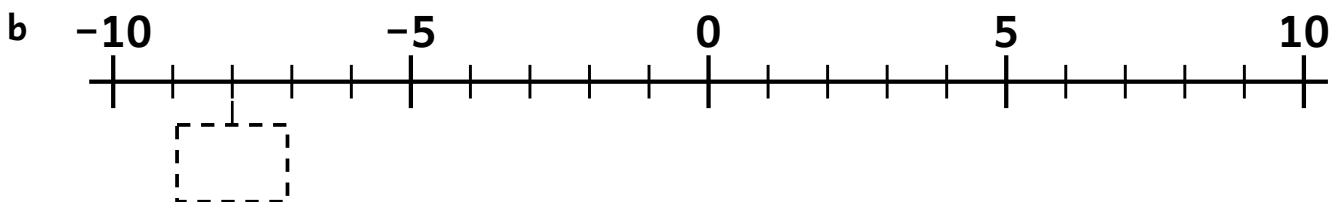
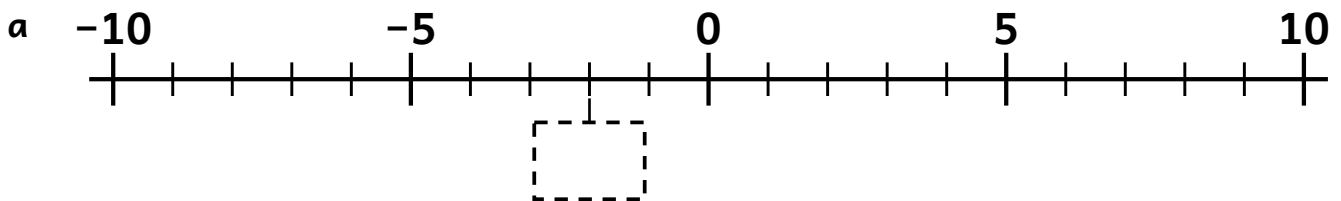
**a**    -10    -16    13    17    10

<  <  <  <

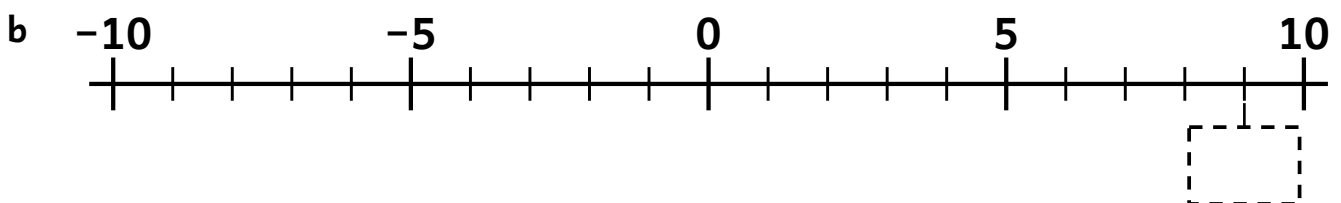
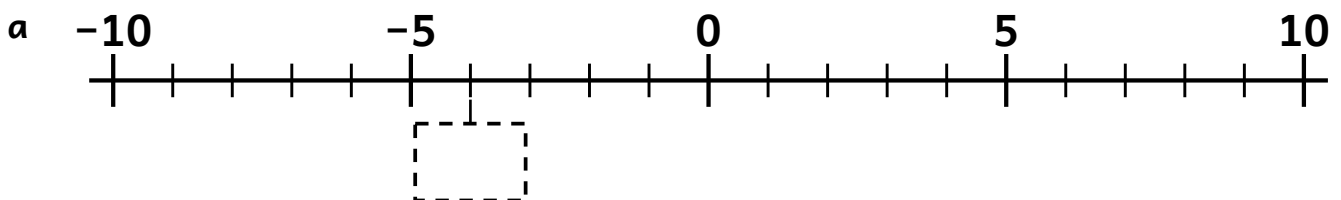
**b**    -16    -17    4    -2    17

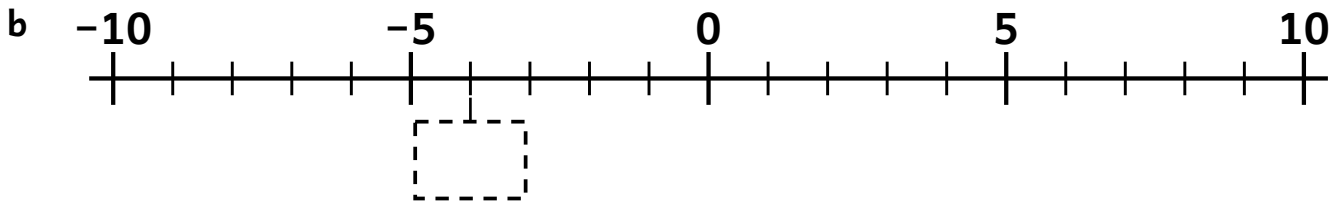
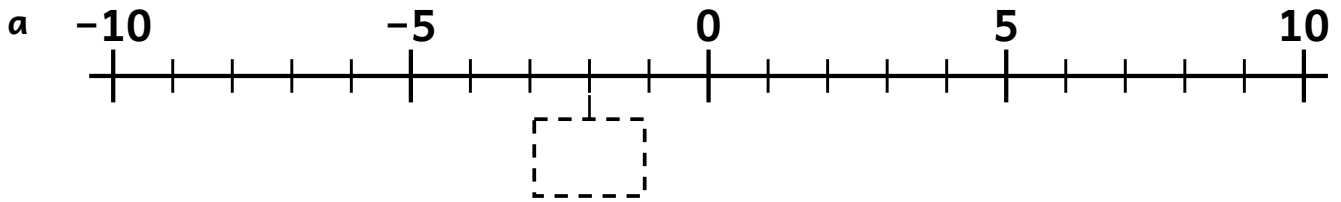
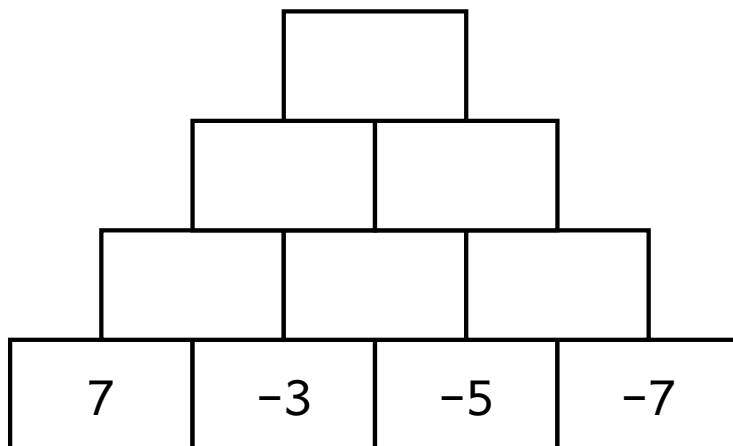
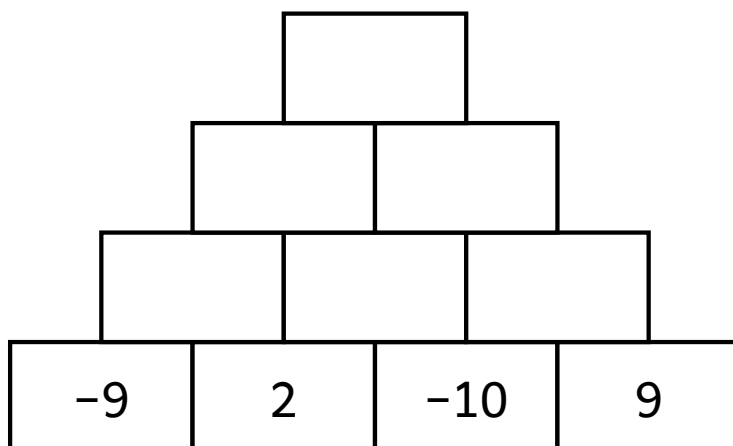
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**2 Integer Puzzles** Write the number in each box.



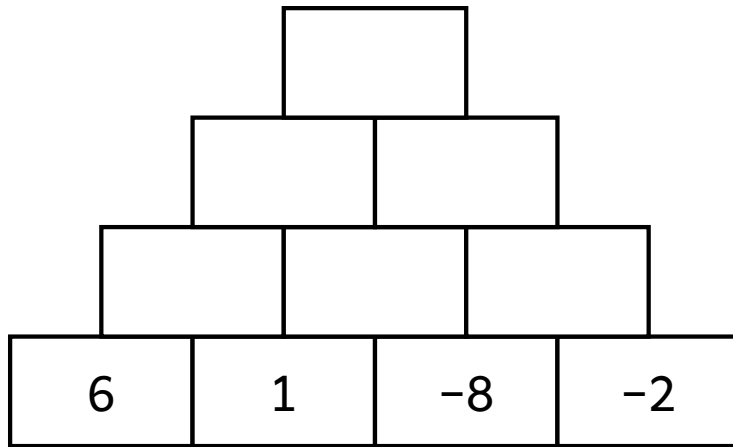
**3 Integer Puzzles** Write the number in each box.



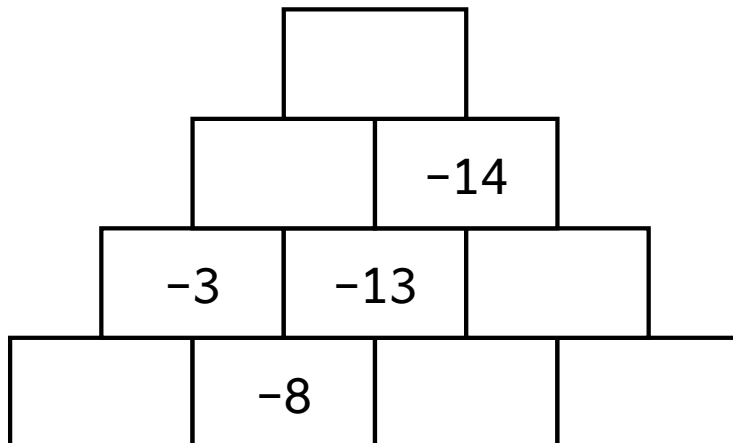
**4 Integer Puzzles** Write the number in each box.**5 Integer Puzzles** Each brick is the sum of the two below it. Fill in every empty brick.**6 Integer Puzzles** Each brick is the sum of the two below it. Fill in every empty brick.

**7****Integer Puzzles**

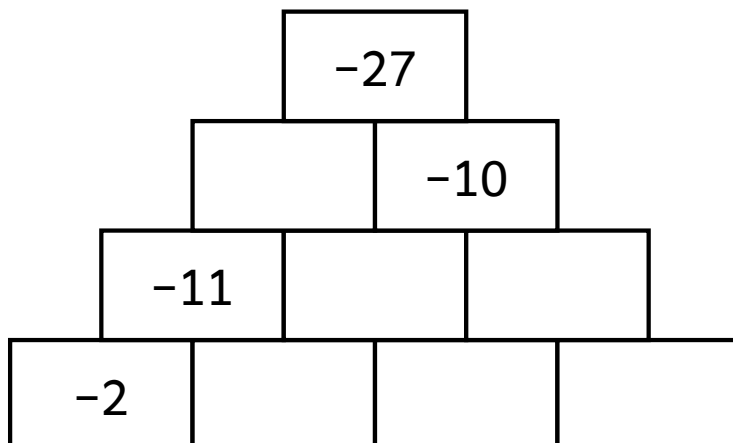
Each brick is the sum of the two below it. Fill in every empty brick.

**8****Integer Puzzles**

Each brick is the sum of the two below it. Fill in every empty brick.

**9****Integer Puzzles**

Each brick is the sum of the two below it. Fill in every empty brick.



**10****Integer Puzzles**

Use  $-2$ ,  $-1$ ,  $1$  and  $2$  once in each row and column. The numbers in a cage add (+) or multiply ( $\times$ ) to make its clue.



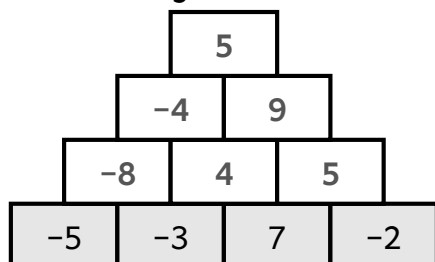
|            |            |            |           |
|------------|------------|------------|-----------|
| $-2\times$ | $-2\times$ | $-1\times$ |           |
|            |            | $-4\times$ |           |
| $-1+$      |            | $3+$       | $2\times$ |
|            | $1$        |            |           |



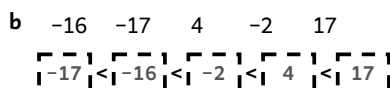
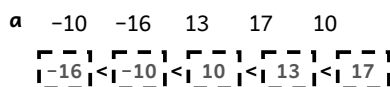
# Answers

For grown-ups. Cut off or keep this page aside until the puzzles are done.

## Learn • Integer Puzzles

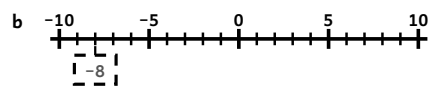
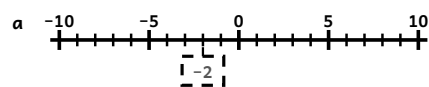


#1



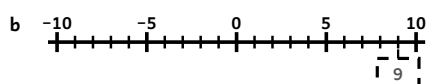
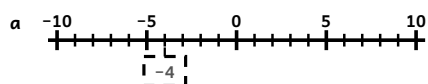
a: -16, -10, 10, 13, 17. Below zero, the bigger the number after the minus sign, the smaller it is. b: -17, -16, -2, 4, 17. Below zero, the bigger the number after the minus sign, the smaller it is.

#2



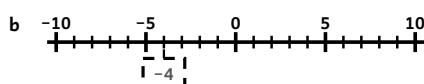
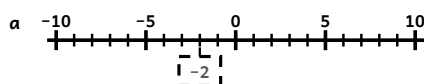
a: -2. Count the ticks from 0: 2 below zero. b: -8. Count the ticks from 0: 8 below zero.

#3



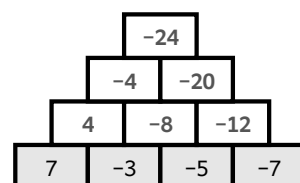
a: -4. Count the ticks from 0: 4 below zero. b: 9. Count the ticks from 0: 9 above zero.

#4



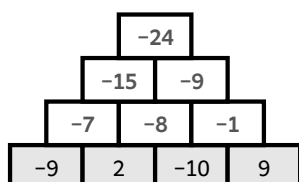
a: -2. Count the ticks from 0: 2 below zero. b: -4. Count the ticks from 0: 4 below zero.

#5



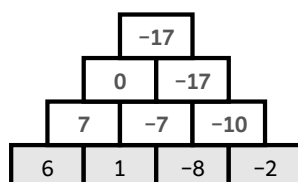
Add the two below:  $7 + (-3) = 4$ . Keep going up.

#6



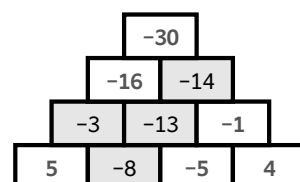
Add the two below:  $-9 + 2 = -7$ . Keep going up.

#7



Add the two below:  $6 + 1 = 7$ . Keep going up.

#8

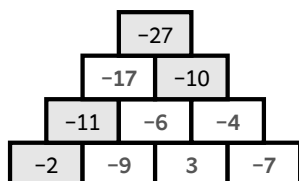


-3 sits on -8 and ?, so  $? = -3 - (-8) = 5$ .



## Answers For grown-ups. Cut off or keep this page aside until the puzzles are done.

#9



-11 sits on -2 and ?, so  $? = -11 - (-2)$   
 $= -9$ .

#10

|                      |                     |                      |                     |
|----------------------|---------------------|----------------------|---------------------|
| <sup>-2×</sup><br>-2 | <sup>-2×</sup><br>2 | <sup>-1×</sup><br>-1 | 1                   |
| 1                    | -1                  | <sup>-4×</sup><br>-2 | 2                   |
| <sup>-1+</sup><br>2  | -2                  | <sup>3+</sup><br>1   | <sup>2×</sup><br>-1 |
| -1                   | <sup>1</sup><br>1   | 2                    | -2                  |

The 3+ cage can only be 1 + 2. Then each row and column needs every number once.