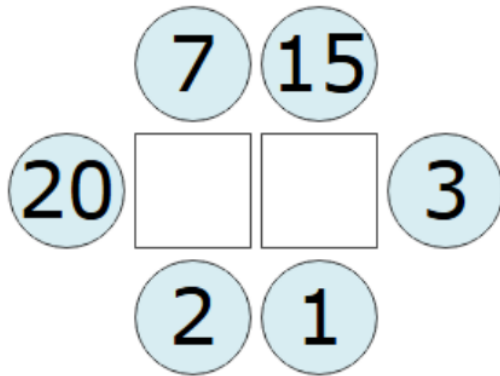
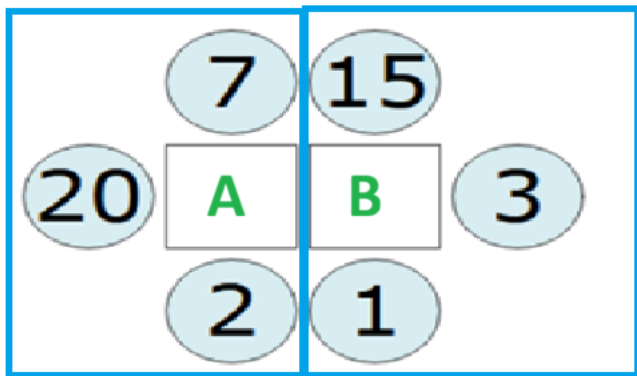


In these challenges, the number in each square is the average (mean) of the four numbers surrounding it.



Your challenge is to find the missing number in each of the grids below.

Solution:



Sum: 29 19

Lets call the 2 unknown values as A and B. Goal is to find these 2 values.

Step 1. Find the 2 totals highlighted in blue boxes in above diagram.

Two sums from right to left are:

1. $29 + B$
2. $19 + A$

Step 2. Now, let me start from B. You can start from A side too.

Step 3. Since left hand sum is 29. A cannot be less than 8. Since right sum is 19. B cannot be less than 5.

Step 4. Now we know that the sum should be multiple of 4. We have total of left hand side as $29+B$. To make this a multiple of 4,

a. Try $B=3$, then $\text{sum} = 29+3 = 32$, and value of A will be $32/4 = 8$.- this is not right as A should be >8 .

b. So, we will try next number, $B=7$. Then $A = (29+7)/4 = 9$. This is a good possibility.

c. Now, if $A= 9$, let's find B.

$$B = (19+9)/4 = 7$$

$$\text{So, } A = 7$$

Step 5. Verification:

Validate the 2 values and cross check if the values are correct from either end.

Answer:

