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# Missing Numbers

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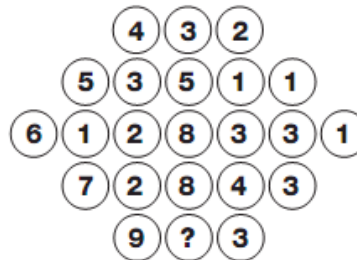


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## Missing Numbers

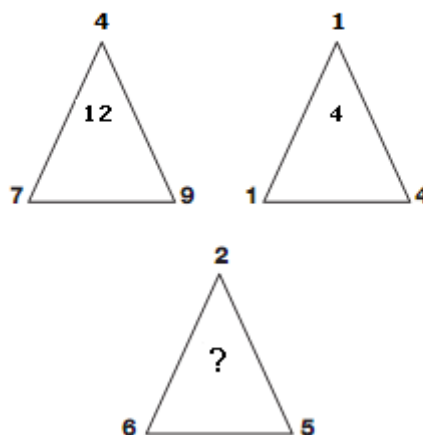
What number comes inside the circle?



**Answer** : 6

**Explanation** : Looking at the diagram in rows, the central circle equals half the sum of the numbers in the other circles to the left and right of the centre.

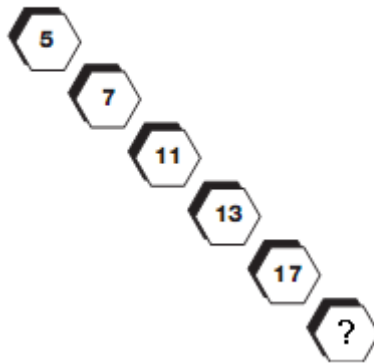
Which number replaces the question mark?



**Answer** : 9

**Explanation** : The number at the centre of each triangle equals the sum of the lower two numbers minus the top number.

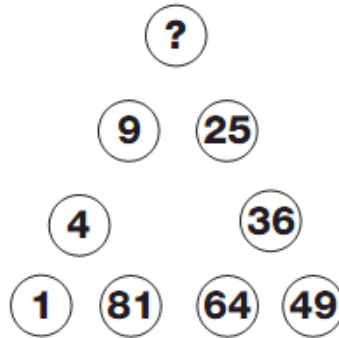
Which number completes the puzzle?



**Answer** : 19

**Explanation** : As you move diagonally down, numbers follow the sequence of Prime Numbers.

Which number replaces the question mark?



**Answer** : 16

**Explanation** : Starting bottom left and moving clockwise around the triangle, numbers follow the sequence of Square Numbers.

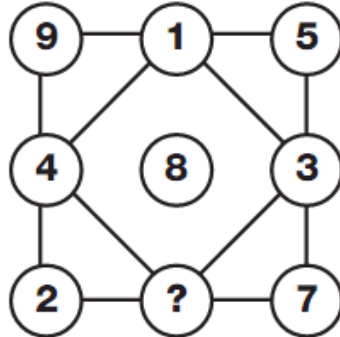
Which number replaces the question mark?



**Answer** : 39

**Explanation :** Working from top to bottom, double each number and subtract 1, then 2, then 3 etc.

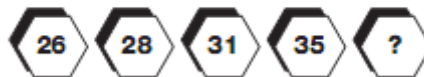
Which letter replaces the question mark?



**Answer :** 6

**Explanation :** The numbers in each row and column add up to 15.

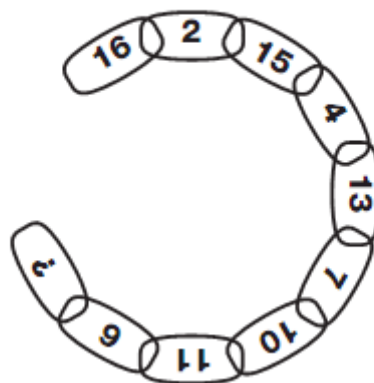
What is missing from the hexagon?



**Answer :** 40

**Explanation :** Moving from left to right, numbers increase by 2, 3, 4 and 5.

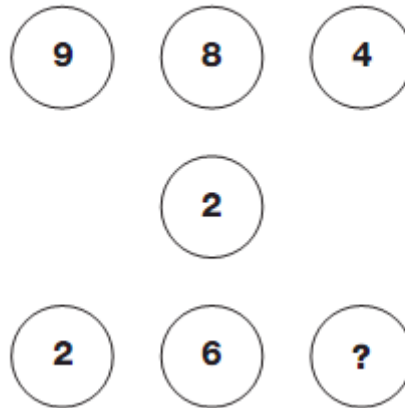
Which number replaces the question mark?



**Answer :** 16

**Explanation :** Moving clockwise, around alternate segments in the chain, one sequence decreases by 1, 2, 3 and 4 each time, while the other increases by 2, 3, 4 and 5.

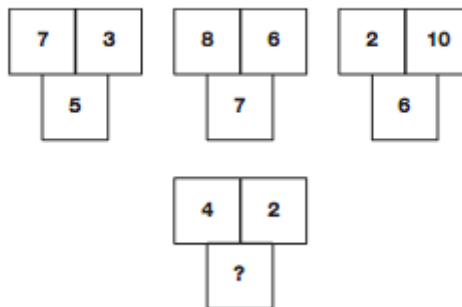
Which number replaces the question mark?



**Answer** : 7

**Explanation** : Starting with the numbers in the top row, and following straight lines through the centre of the diagram, subtract the middle number from the top number to give the corresponding value on the bottom row.

Which number replaces the question mark?



**Answer** : 3

**Explanation** : In each group of 3 numbers, the lower number equals the average of the top two numbers.

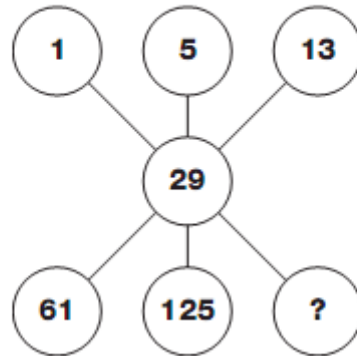
Which number replaces the question mark?



**Answer** : 1

**Explanation :** Reading each pair of numbers as a 2 digit number, they follow the sequence of square numbers from 6 to 9.

Which number replaces the question mark?



**Answer :** 253

**Explanation :** Starting at the top left, and moving through the diagram in a Z shape, double each number and add 3 to give the next number along.

Which number replaces the question mark?



**Answer :** 51

**Explanation :** Moving to the right, double each number and subtract 3 to give the next number along.

Which number replaces the question mark?

10	
8	13
16	6
4	19
22	?

**Answer :** 2

**Explanation :** Starting with the 10 at the top, one set of numbers increases by 3 each time, written in alternate boxes as you move down the diagram, and the other set of numbers

decreases by 2, written in the boxes remaining.

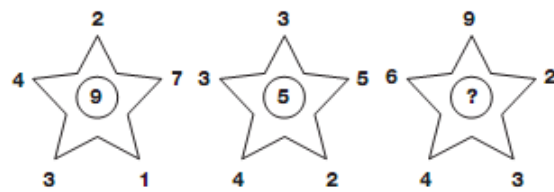
Which number replaces the question mark?

3	1	4
7	2	9
1	5	?

**Answer** : 6

**Explanation** : On each row, add the values of the left hand and central boxes to give the value in the right hand box.

Which number replaces the question mark?



**Answer** : 10

**Explanation** : In each star diagram, the number in the centre equals the sum of the top three numbers, subtracting the sum of the bottom two numbers.

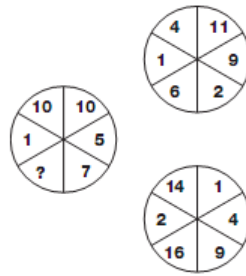
Which number replaces the question mark?

2	7	17
3	11	19
5	13	?

**Answer** : 23

**Explanation** : Starting top left, and moving down in columns from left to right, the numbers follow the sequence of Prime Numbers from 2 to 23.

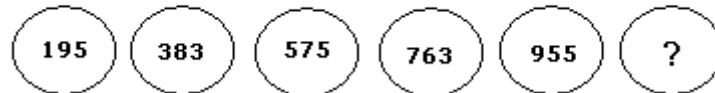
Which number replaces the question mark?



**Answer** : 10

**Explanation** : Numbers in the segments of the left hand circle equal the difference between numbers in corresponding segments of the two right hand circles.

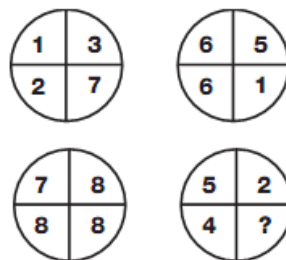
Which four digit number missing from last oval?



**Answer** : 1,143

**Explanation** : Starting with the top 3 digit number, the first digit increases by 2 as you descend, from 1 to 11. The middle digit decreases by 1 each time, and the right hand digit alternates between 5 and 3.

Which number replaces the question mark?

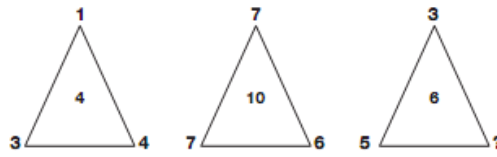


**Answer** : 6

**Explanation** : Numbers in the lower left circle equal the sum of the numbers in corresponding segments of the top two circles, and numbers in the lower right circle equal the difference of the numbers in corresponding segments of the top two circles.



Which number replaces the question mark?



**Answer** : 4

**Explanation** : In each triangle, the central number equals the sum of the three outer numbers divided by two.

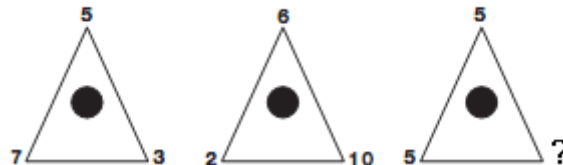
Which number replaces the question mark?



**Answer** : 5

**Explanation** : In each star, the central number equals the difference between the sum of the even numbers and the sum of the odd numbers from the points of the star.

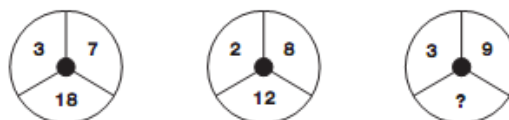
Which number replaces the question mark?



**Answer** : 5

**Explanation** : In each triangle, the number at the apex of the triangle equals the average of the two numbers at the bottom.

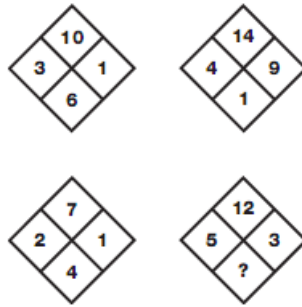
Which number replaces the question mark?



**Answer** : 22

**Explanation** : In each circle, the lower number equals the product of the top two numbers, subtracting 3 for the left hand circle, 4 for the middle, and 5 for the right hand circle.

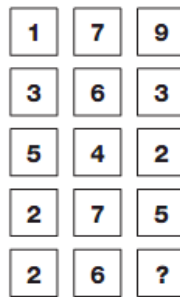
Which number replaces the question mark?



**Answer** : 4

**Explanation** : In each diamond, add the left and right hand numbers together, and subtract this sum from the top number to give the value at the bottom.

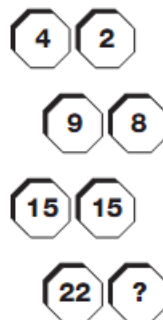
Which number replaces the question mark?



**Answer** : 7

**Explanation** : Reading each row of the diagram as a series of 3 digit numbers, the centre 3 digit number equals the sum of the top 2 numbers, and the sum of the lower 2 numbers.

Which number replaces the question mark?

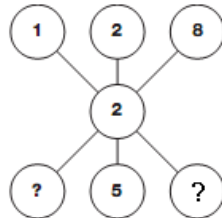


**Answer** : 23

**Explanation** : Looking at the diagram as two columns,

numbers in the left hand column increase by 5, 6, 7 etc, and numbers in the right hand column increase by 6, 7, 8 etc.

Which number replaces the question mark?



**Answer** : 2

**Explanation** : The diagram represents a multiplication sum :  $128 \times 2 = 256$ .

Which number replaces the question mark?



**Answer** : 96

**Explanation** : Moving from left to right, numbers follow the sequence of square numbers, from 6 to 10, subtracting 4 each time.

Which number replaces the question mark?

3	5
4	1
4	7
5	3
5	?

**Answer** : 9

**Explanation** : Reading each pair of numbers in a row as a 2 digit number, values increase by 6 each time.

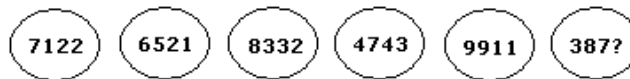
Which number replaces the question mark?



**Answer** : 13

**Explanation** : In each star, the central value equals the sum of the upper and lower digits on each star, subtracting the sum of the left and right hand digits.

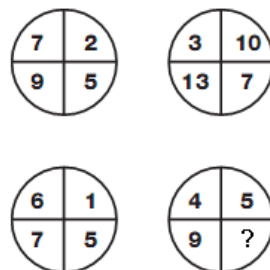
Which number replaces the question mark?



**Answer** : 4

**Explanation** : Adding up the digits in each oval shape, as you move down the column this total increases by 2 each time, from 12 to 22.

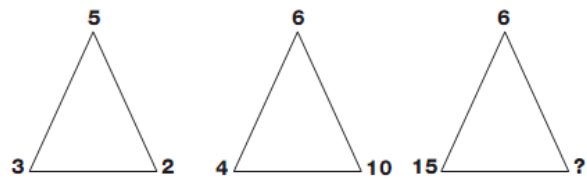
Which number replaces the question mark?



**Answer** : 1

**Explanation** : In each circle, the number in the lower left segment equals the sum of the numbers in the top two segments, and the number in the lower right circle equals the difference between the numbers in the top two segments.

Which number replaces the question mark?



**Answer** : 9

**Explanation** : Working from left to right, the sum of the two smaller numbers on each triangle equals the third number.

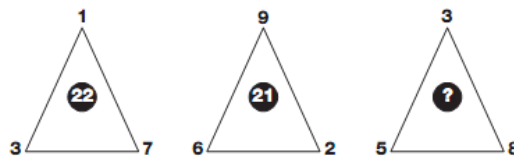
Which number replaces the question mark?



**Answer** : 6

**Explanation** : The number in the centre of each star equals the average of the surrounding 5 numbers.

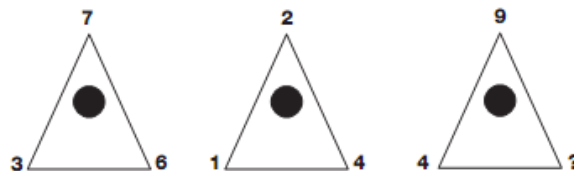
Which number replaces the question mark?



**Answer** : 43

**Explanation** : In each triangle, multiply the lower two numbers together and add the upper number to give the value at the centre.

Which number replaces the question mark?



**Answer** : 10

**Explanation :** The numbers on the points of the lower triangle equal the sum of the numbers on corresponding points of the upper two triangles.

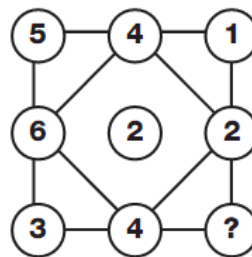
Which number replaces the question mark?

- 72
- 69
- 64
- 57
- 48
- ?

**Answer :** 37

**Explanation :** As you move down, subtract 3 from the previous number, then 5, 7, 9 and 11

Which number replaces the question mark?



**Answer :** 3

**Explanation :** In each row, the sum of the digits is 10.

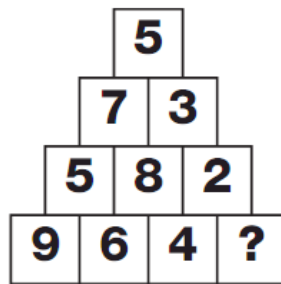
Which number replaces the question mark?



**Answer :** 21

**Explanation :** Each number represents the numerical value of the vowels in the alphabet.

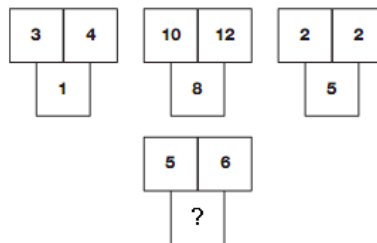
Which number replaces the question mark?



**Answer** : 1

**Explanation** : Starting with the bottom line of the triangle and moving up, the sum of the digits in each line decreases by 5 each time, from 20 to 5.

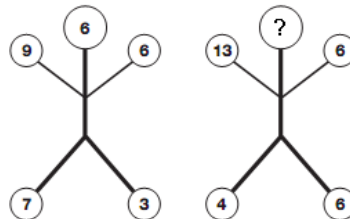
Which number replaces the question mark?



**Answer** : 2

**Explanation** : Numbers in the squares of the top middle figure equal the sum of the numbers in corresponding squares of the other 3 figures.

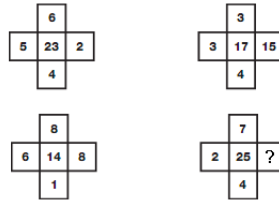
Which number replaces the question mark?



**Answer** : 5

**Explanation** : In each diagram, the sum of the three upper numbers equals the product of the two lower numbers.

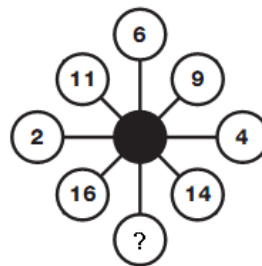
Which number replaces the question mark?



**Answer** : 1

**Explanation** : Add up the four outer numbers and place your answer in the centre square of the shape one place clockwise

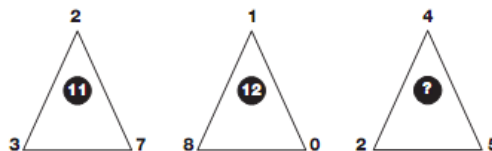
Which number replaces the question mark?



**Answer** : 1

**Explanation** : Taking any series of 3 numbers in a straight line in the diagram, their total is always 19.

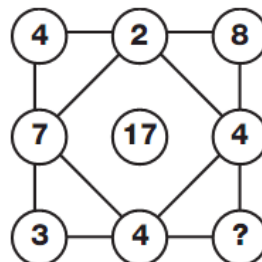
Which number replaces the question mark?



**Answer** : 9

**Explanation** : Working clockwise around the 3 triangles, the sum of the outer digits in each triangle is written in the centre of the triangle one place clockwise

Which number replaces the question mark?

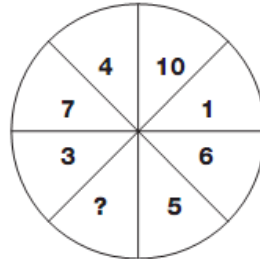


**Answer** : 2



**Explanation :** The sum of the 4 digits at the corners of the diagram is 17, as is the sum of the 4 digits in the middle of each side of the diagram.

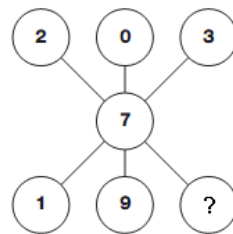
Which number replaces the question mark?



**Answer :** 8

**Explanation :** Divide the circle, horizontally and vertically, to give 4 quarters. The sum of the numbers in the segments of each quarter equals 11.

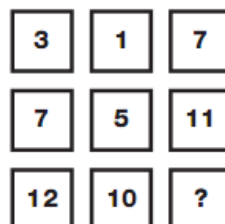
Which number replaces the question mark?



**Answer :** 6

**Explanation :** Working through the diagram in rows, and reading each row as a whole number, the diagram represents a subtraction sum :  $203 - 7 = 196$

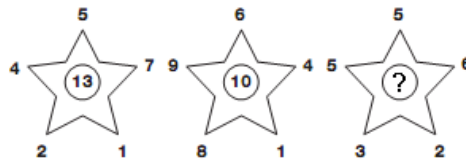
Which number replaces the question mark?



**Answer :** 16

**Explanation :** Working in columns, starting with the top number, add 4 to give the next value down, and add 5 to give the one under that.

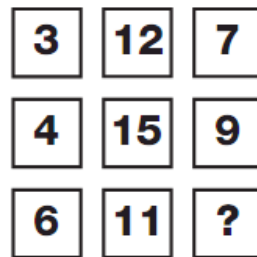
Which number replaces the question mark?



**Answer** : 11

**Explanation** : In each star, add together the top 3 numbers, and subtract the lower 2 numbers, to give the value in the centre of each star.

Which number replaces the question mark?



**Answer** : 3

**Explanation** : In each row of the diagram, add the left and right hand digits together and add 2 to give the result in the centre.

Which number replaces the question mark?



**Answer** : 601

**Explanation** : Starting at the top, double each number and add 7 to give the next number down.

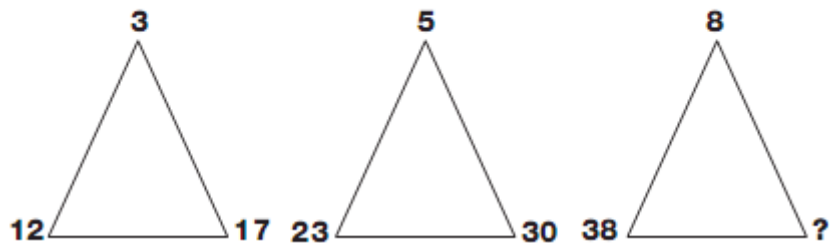
Which number replaces the question mark?

3	4
4	5
6	8
11	16
24	37
58	?

**Answer** : 92

**Explanation** : Working from top to bottom, left to right, add together the first two numbers and subtract 3 to give the next value along.

Which number replaces the question mark?



**Answer** : 47

**Explanation** : Starting at the top on the left, and working in rows across the 3 triangles, values increase by 2, then 3, then 4 etc.

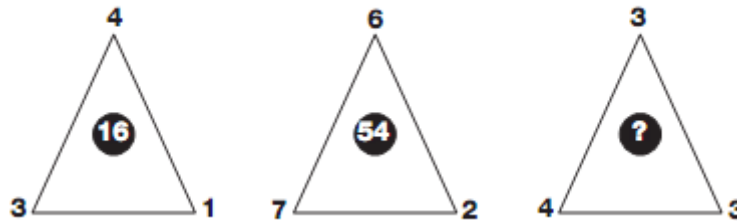
Which number replaces the question mark?



**Answer** : 9

**Explanation** : In each star, the average of the outer 3 numbers is written in the centre of the star.

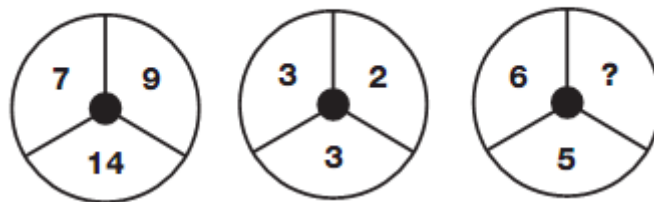
Which number replaces the question mark?



**Answer** : 21

**Explanation** : In each triangle, add the lower 2 digits together and multiply by the upper digit to give the result in the centre.

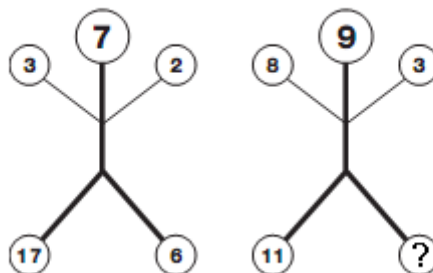
Which number replaces the question mark?



**Answer** : 1

**Explanation** : In each circle, add together the numbers in the left and right hand segments, and subtract 2 to give the result in the lower segment.

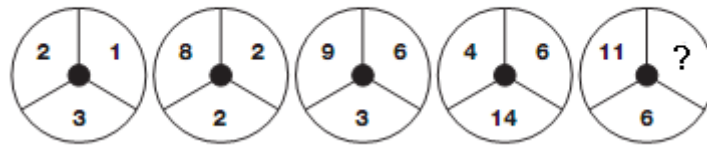
Which number replaces the question mark?



**Answer** : 14

**Explanation** : In each diagram, the number at the top equals the average of the four smaller numbers.

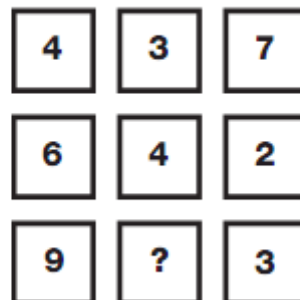
Which number replaces the question mark?



**Answer** : 13

**Explanation** : As you move from left to right, the sum of the digits in each circle forms a sequence of multiples of 6, from 6 to 30.

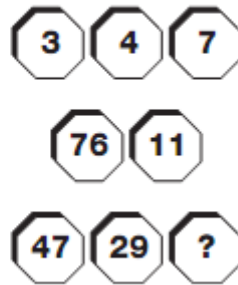
Which number replaces the question mark?



**Answer** : 6

**Explanation** : Working in rows, the central value equals the difference between the left and right hand values.

Which number replaces the question mark?



**Answer** : 18

**Explanation** : Starting on the top left, and moving clockwise around the diagram, add the first two values together to give the next value along. Repeat this sequence.

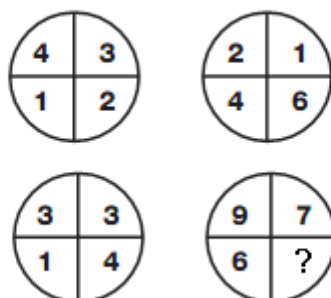
Which number replaces the question mark?



**Answer** : 6

**Explanation** : For each star, add the outer numbers together and divide by 3 for the left hand, 4 for the centre, and 5 for the right hand, putting the result in the centre.

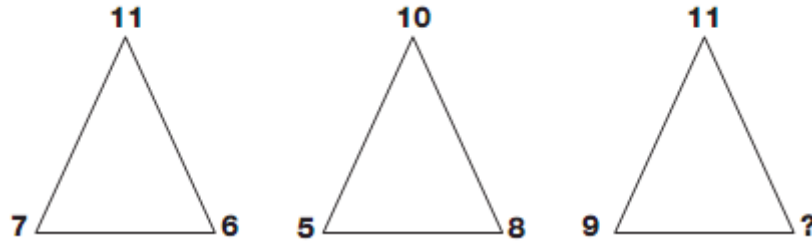
Which number replaces the question mark?



**Answer : 12**

**Explanation :** Add together numbers in corresponding segments of the upper two and lower left circles to give the values in corresponding segments of the lower right circle.

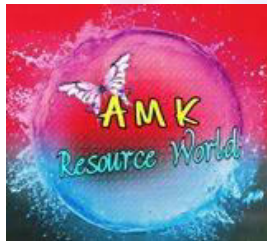
Which number replaces the question mark?



**Answer : 6**

**Explanation :** In each triangle, add together the lower two digits and subtract 2 for the left hand triangle, 3 for the middle and 4 for the right hand triangle, putting the result at the apex of the triangle.

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