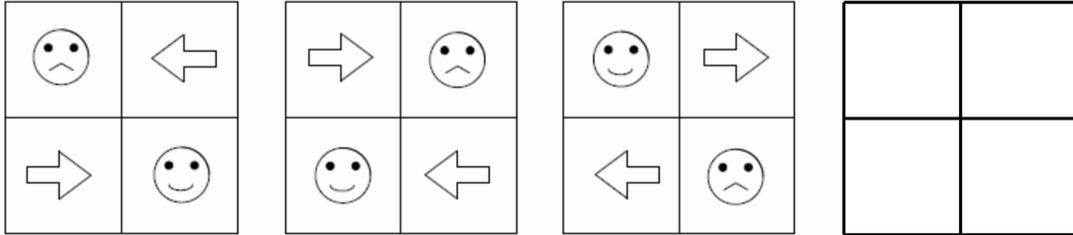
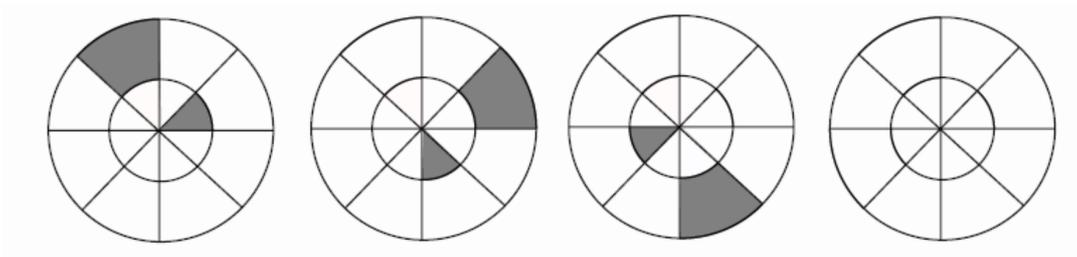


GEP PRACTICE TESTS – FINDING THE LAW

【1】 Find the law in the first three figures and fill in the last figure.



【2】 There's an ornament. Rotate it and get the following figures. Fill in the last figure.



【3】 Find the law and fill in the blanks.

(1) 1, 3, 5, 7, 9, 11, _____, _____, 17, ……

(2) 1, 2, 4, 8, 16, _____, _____, 128, ……

(3) 1, 1, 2, 3, 5, 8, 13, 21, _____, 55, ……

(4) 1, 3, 2, 6, 3, 9, _____, _____, 5, 15, ……

(5) 1, 4, 9, 16, 25, 36, _____, _____, 81, ……



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【4】 As shown in the figure, there is a certain law among the numbers in the five square tables. Fill in the fourth table.

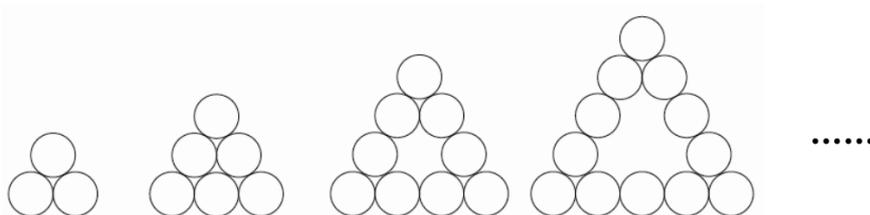
1	5
5	6

2	7
14	9

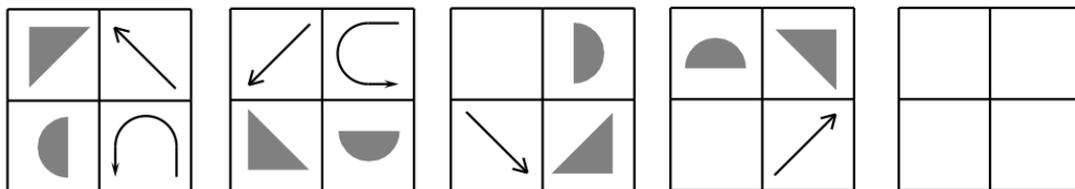
3	9
27	12

5	13
65	18

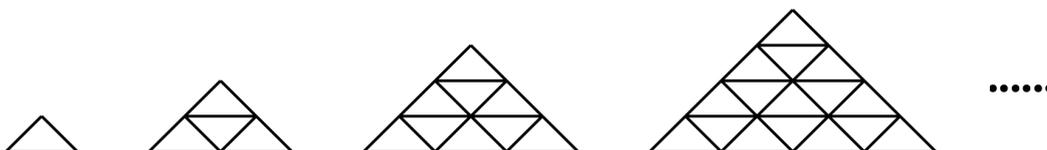
【5】 According to the law shown in the figures, there are _____ circles in the 10th figure.



【6】 Observe the law in the figures and fill in the blanks.

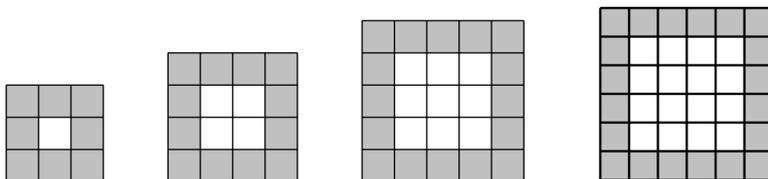


【7】 Use sticks to make triangles, and there are _____ sticks in the 5th figure.

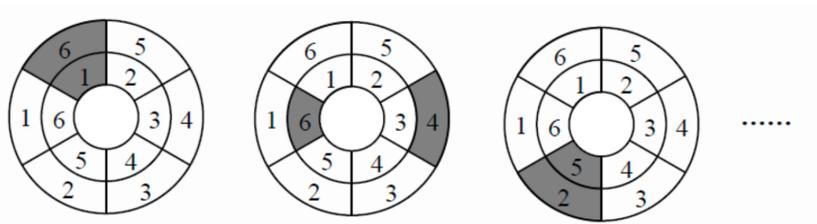


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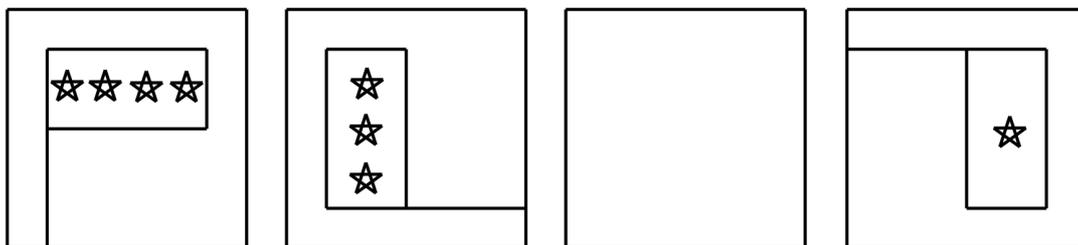
【8】 As shown in the figure, use equally large black and white square tiles to pave square floors. When there are 24 black tiles in a figure, there are _____ white tiles.



【9】 Observe the law of changing in the following figures. The sum of the numbers in the shaded area in the 8th figure is _____.



【10】 The following figures are listed according to a certain law. Fill in the 3rd figure.



【11】 Find the law and fill in the blanks.

(1) 2, 6, 10, 14, 18, 22, _____, _____, 34;

(2) 3, 6, 12, 24, _____, _____, 192;

(3) 1, 2, 3, 5, 8, 13, _____, _____, 55;

(4) 1, 2, 4, 7, 11, 16, _____, _____, 37.

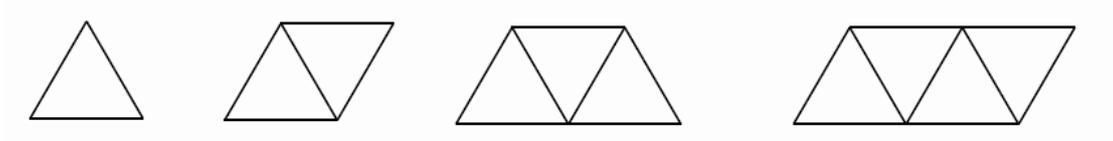


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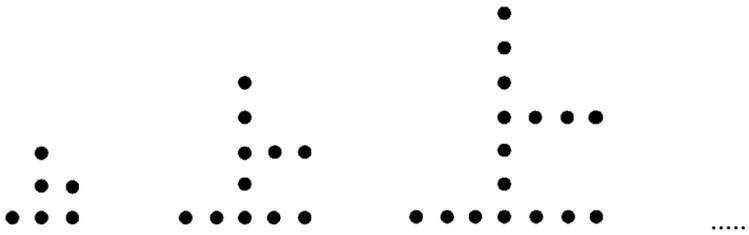
【12】 Find the law and fill in the blanks.

$$\frac{1}{20}, \frac{3}{18}, \frac{\square}{\square}, \frac{7}{14}, \frac{1}{12}, \frac{\square}{\square}, \frac{5}{8}, \frac{7}{6}, \frac{1}{4}, \frac{3}{2}$$

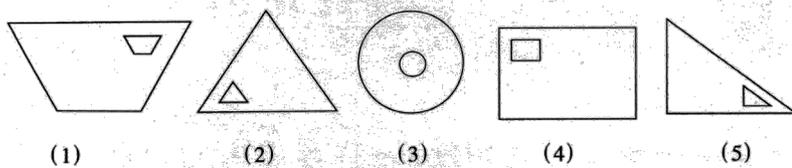
【13】 As the figure shown, use matches to make triangles according to a certain law. When there are seven triangles in a figure, how many matches are there?



【14】 As shown in the figure, use chess pieces to make Chinese character “上” according to a certain law. Observe and find how many chess pieces there are in the 6th “上”.



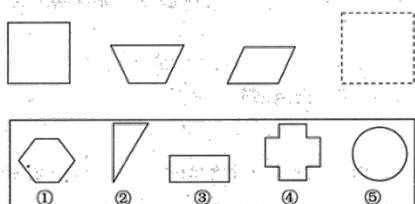
【15】 Find which figure is different from the others.



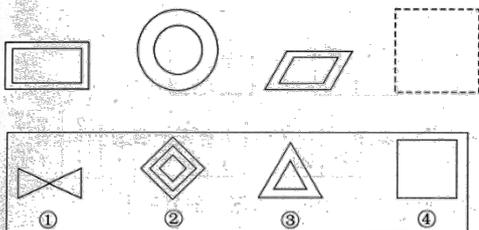
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【16】 Find proper figures to fill in the dotted square frames.

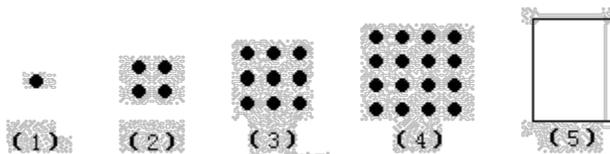
1、



2、



【17】 Observe the following figures and answer the questions.



1. How many points are there in the 5th figure?

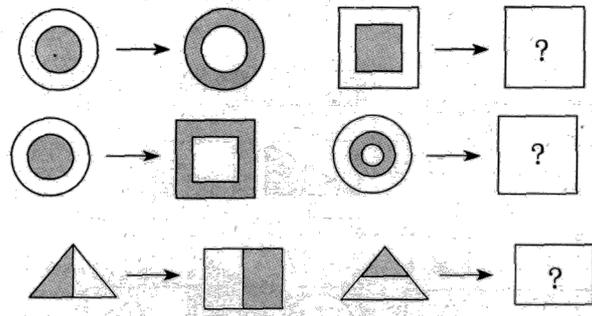
2. How many points are there in the 10th figure?

3. How many points are there in the first 10 figures?

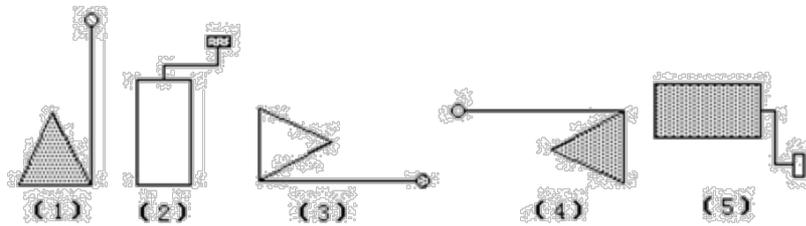


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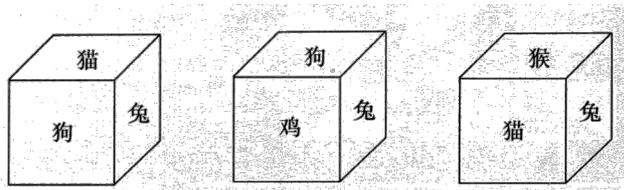
【18】 Draw the other half of the figures on the right according to the relationship between the figures on the left.



【19】 Find the figure which is different from the others.

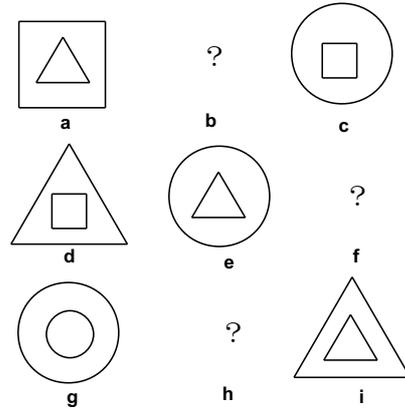


【20】 Write six Chinese Characters “猫” “狗” “兔” “鸡” “猴” “虎” on the six surfaces of a cube. Seen from different perspectives, we get the following figures. Find which characters are written on the opposite surfaces.

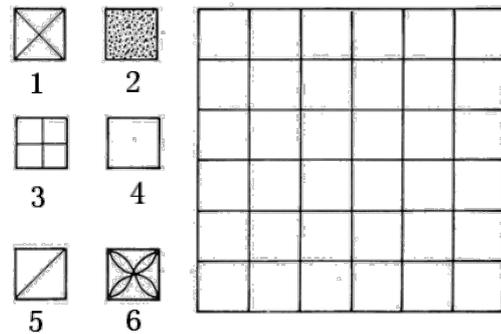


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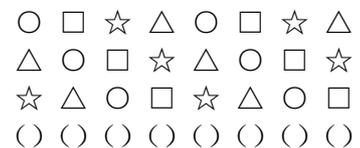
【21】 The following figure is under a certain law. Observe and put proper figures in the places of “?”



【22】 There are six different kinds of tiles and we have six of them each. Pave them on the floor given below to make sure there are no the same tiles in each horizontal row and each vertical row. How will you design?

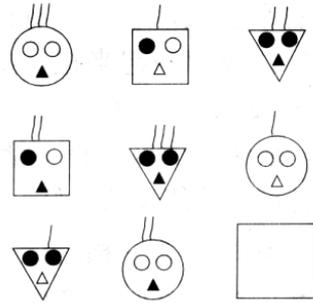


【23】 It's said that there was an old man who left many treasure boxes to the world, and there're the most valuable treasures in the boxes. But you must break the password before you open the box. Can you find the password?

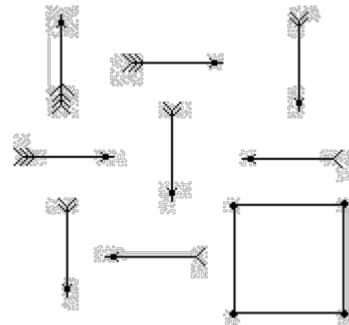


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【24】 There are many dolls below. Observe them carefully and find the law. Then draw the last one.



【25】 Observe the figures below and find its law. Then fill in the blank box.

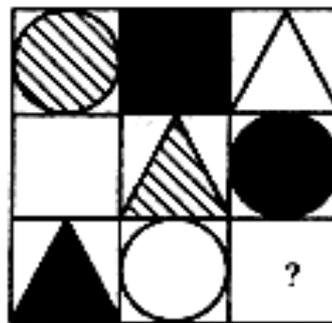


【26】 Observe the law of changing in the figure given, then fill in the two blanks.

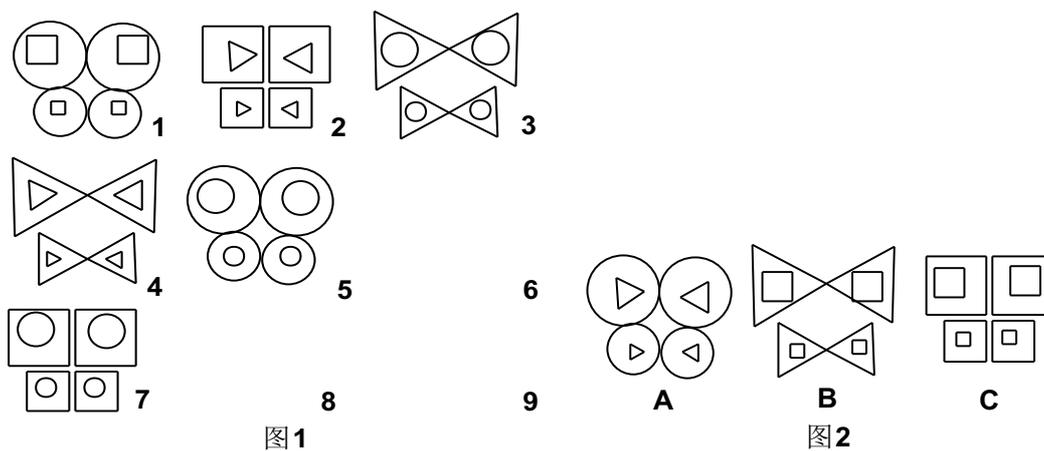


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【27】 Find the law of changing in the following figure and fill in the box “?”.



【28】 Qi Qi likes butterflies very much. She drew 9 pictures of butterflies with rulers and pencil compass, then cut them down and put them on the table, as figure1 shown. She also found that there is a law in the figures. Suddenly, the wind blew away 3 of the butterflies, as figure2 shown. Can you find the law and put the butterflies in figure2 back to figure1?



【29】 The left following figure is a sequence consisting of 9 small people, but one of them is absent. Choose one small person from the right following figure and put him to the place of “?”. Which one is the most proper?



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【30】 Four animals are arranging their seats. At first, the mouse sits on seat No.1, the monkey sits on No.2, the rabbit No.3 while the cat No.4. Then they start to exchange their seats continually. The first exchange is between the upper and lower rows, after that, the second exchange is between the left and right columns. Then it's between the upper and lower, the fourth time is between the left and right...After the fifth exchange, what's the number of the rabbit's seat?

(mouse 鼠, monkey 猴, rabbit 兔, cat 猫)



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