Here is part of a number square. Fill in the missing numbers.

A

5	6	7	8	9
15	16	17		
25				

Add together the two numbers that are in the shaded squares.

<, > or =?

B

Choose one of these symbols <, > or = to make the number sentences correct.

$24 + 5 \bigcirc 24 + 6$

$18 + 3 \bigcirc 17 + 4$

$33 + 15 \bigcirc 40 + 8$

$23 + 10 + \square > 23 + 10 + \square$

$32 + \square + 5 < 32 + \square + 5$

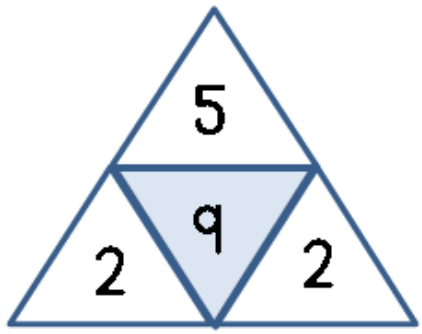
$50 + 30 + \square = 49 + 29 + \square$

Put the numbers 6, 7, 8, 9, 10 and 11 into the boxes. You can only use each number once!

Number triangles

C

Here is a number triangle.

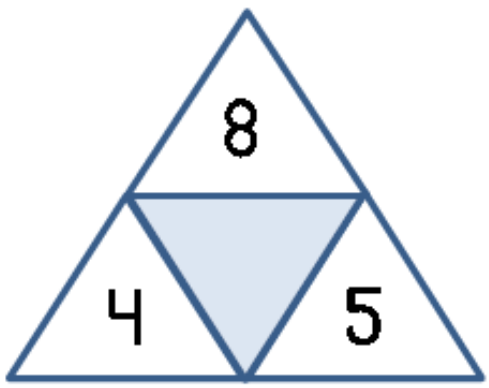


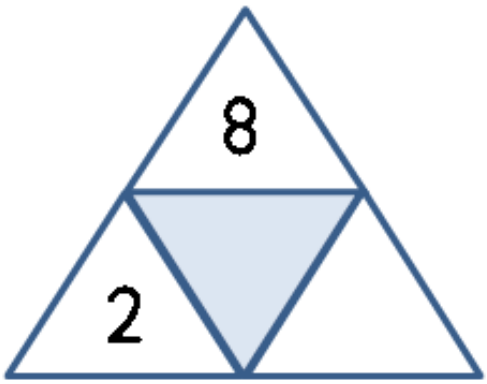
The middle number is found by

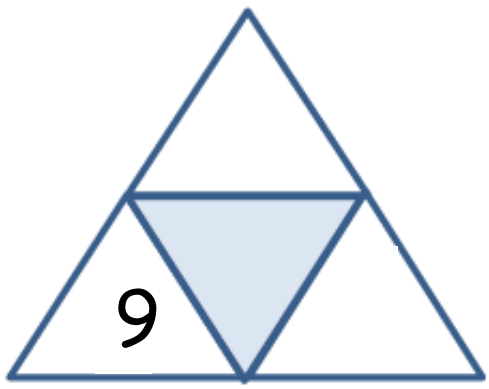
- Multiplying the two bottom corner numbers together
- Then adding the top number

2 x 2 = 4 + 5 = 9

These three number triangles all have the same middle number.
Work out the missing numbers.



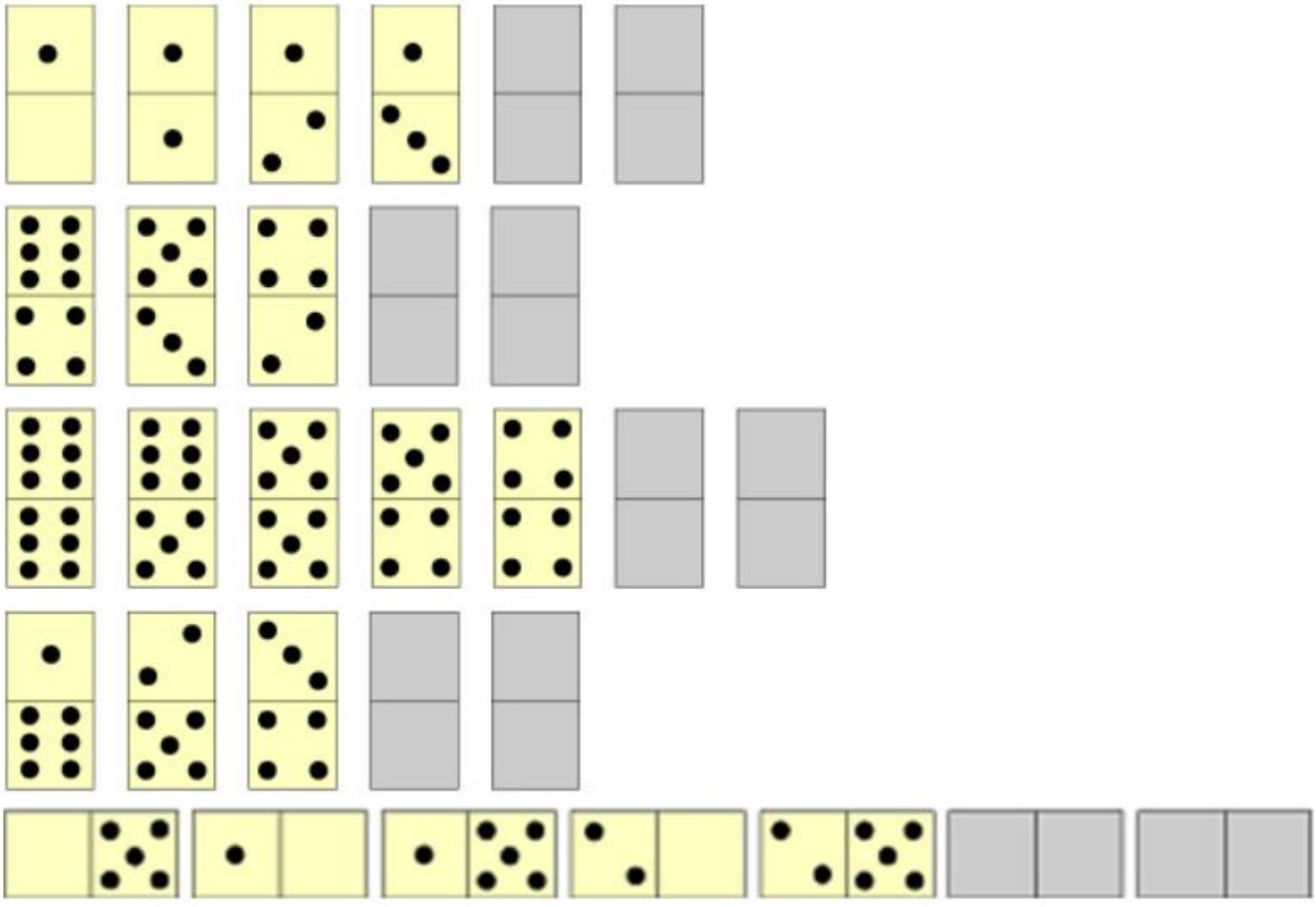




Domino Sequences

What might the next two dominoes be in each of these sequences?
Can you explain why you chose those two dominoes?

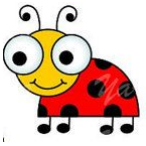
A



Bugs!

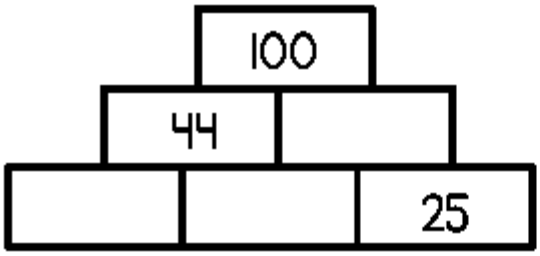
B

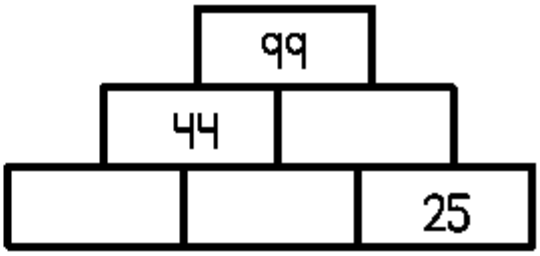
Mrs Smith has 3 jars of bugs!
There are 7 more bugs in the first jar than the second jar.
There are 3 less bugs in the third jar than the second.
There are 40 bugs in total.
How many bugs are in the first jar?



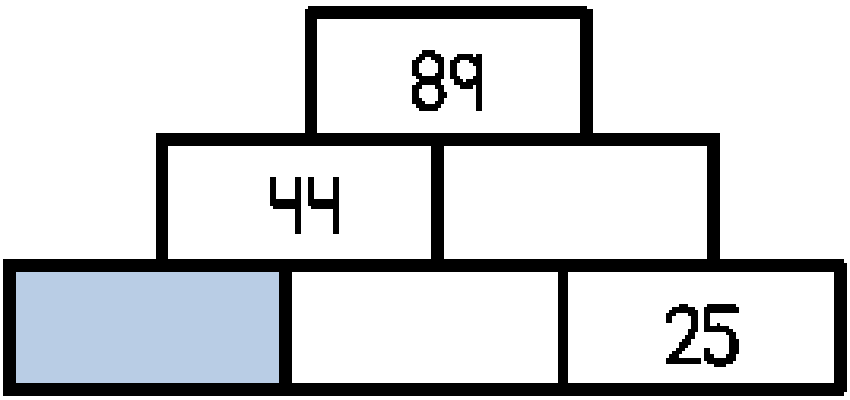
In the pyramids, the two numbers below add to make the number above.
Complete these two pyramids.

c





What is the value of the blue box?
Explain how you got your answer.



Tangram

The tangram is based on the dissection of a square into seven pieces.

Cut the shapes out.

Can you make other squares using some, not all, of the pieces?
Can you make five different squares?
What is the smallest square you can make?
What is the largest?