

Year 4 Maths 25th June
2020

NUMBER PRACTICE

- ▶ A: Put these numbers into ascending order

61.2

21.6

21.1

62.1

29.9

- ▶ B: What is the value of the digit 4 in each of these numbers?

2,439

5,841

94,003

41,963

- ▶ C: $15.8 \times 10 =$

$15.8 \times 100 =$

$15.8 \times 1000 =$

NUMBER PRACTICE answers

- ▶ A: Put these numbers into ascending order

smallest

21.1

21.6

29.9

61.2

62.1

biggest

- ▶ B: What is the value of the digit 4 in each of these numbers?

2,439 - - - - - 400

5,841 - - - - - 40

94,003 - - - - - 4,000

41,963 - - - - - 40,000

- ▶ C: $15.8 \times 10 = 158$

$$15.8 \times 100 = 1,580$$

$$15.8 \times 1000 = 15,800$$

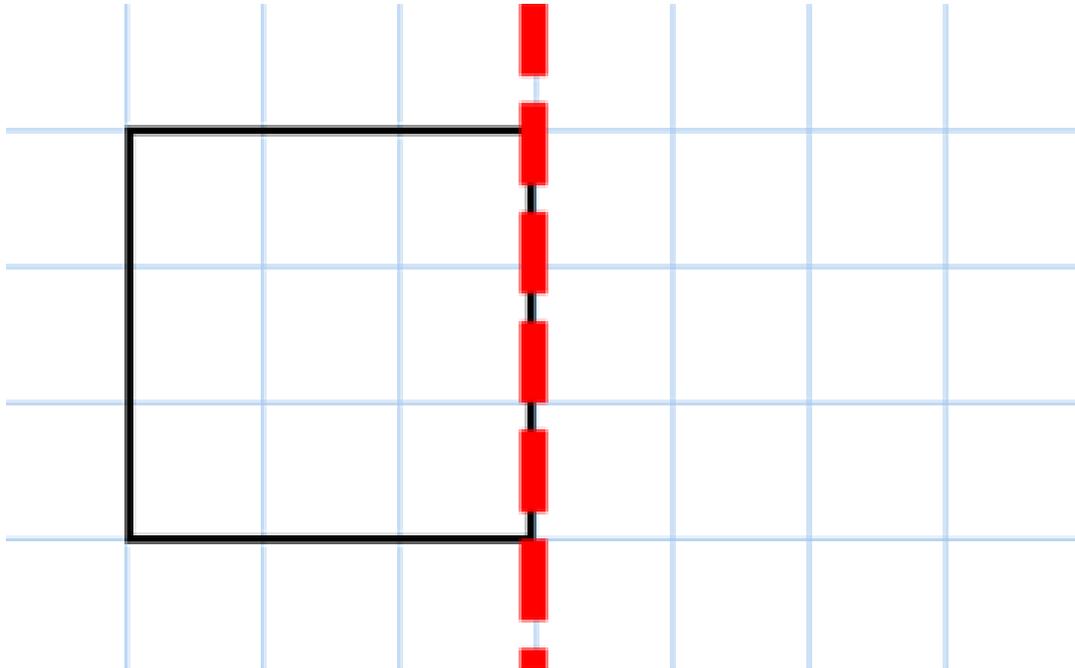
Learning objective:

▶ I CAN REFLECT SHAPES AND PATTERNS
ACROSS A LINE OF SYMMETRY

- ▶ **SOME WILL EVEN** draw symmetrical shapes and patterns across a given line of symmetry
- ▶ **SOME** will reflect shapes across a diagonal line of symmetry
- ▶ **MOST** will reflect shapes across horizontal and vertical lines of symmetry
- ▶ **ALL** will use a grid to help reflect shapes

RECALL

- Yesterday, we revised symmetry. Have a look at the shape below. Can you show it would look like if it was reflected along the line of symmetry?



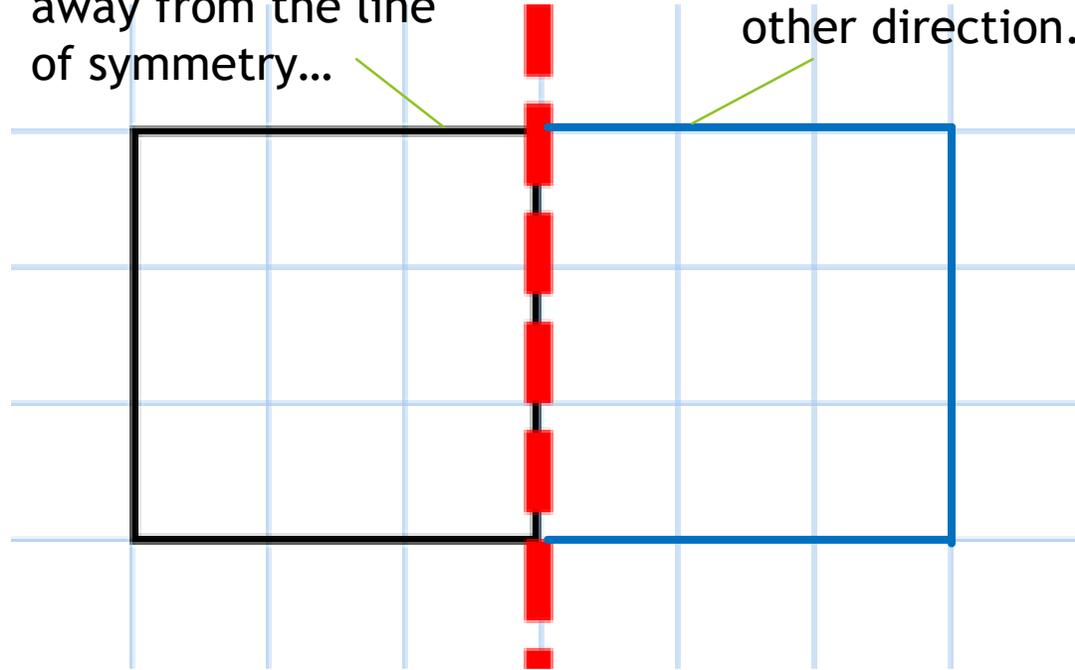
If you have a small mirror, you can place it on the line of symmetry and see the reflected shape.

If you don't have a suitable mirror, you can use the square to help you.

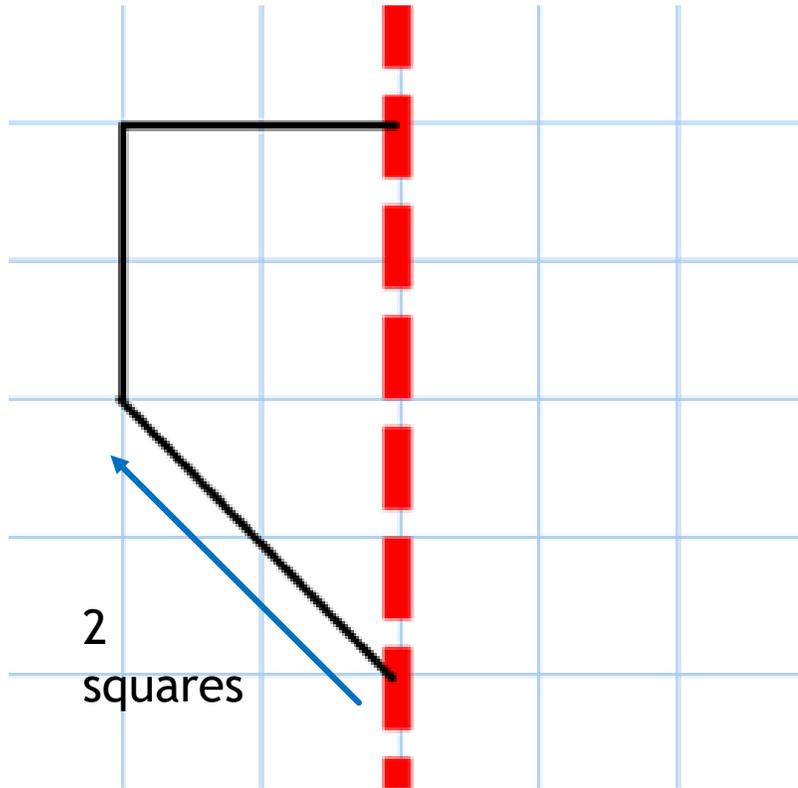
RECALL answer

This horizontal line goes 3 squares away from the line of symmetry...

... so this horizontal line must go 3 squares from the line of symmetry in the other direction.



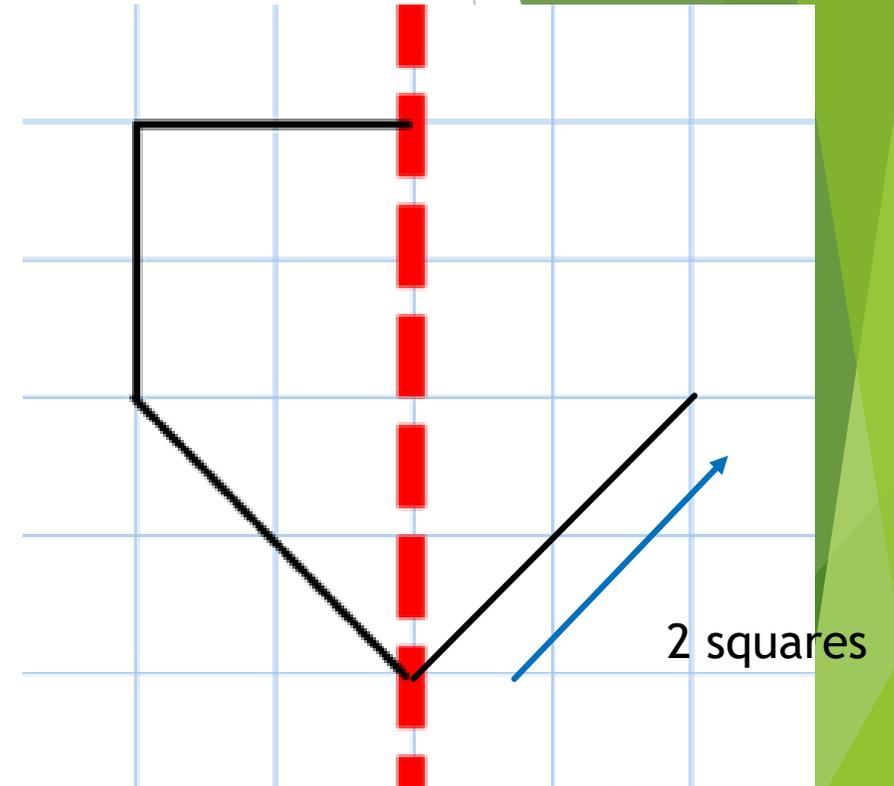
GUIDED PRACTICE



To reflect the diagonal line in this shape, look at the way it connects to the line of symmetry.

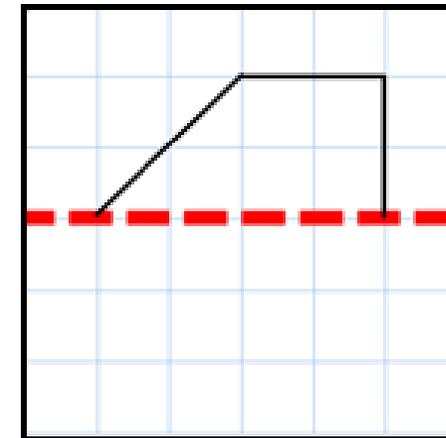
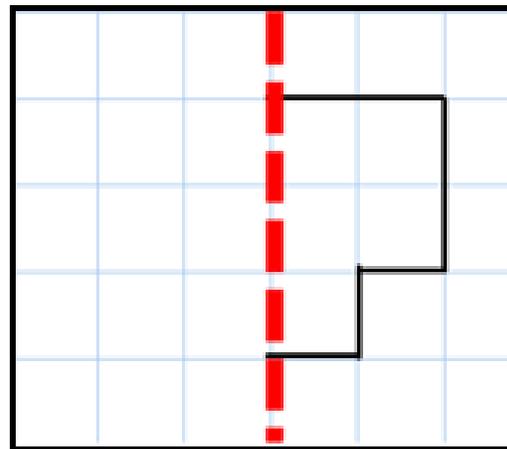
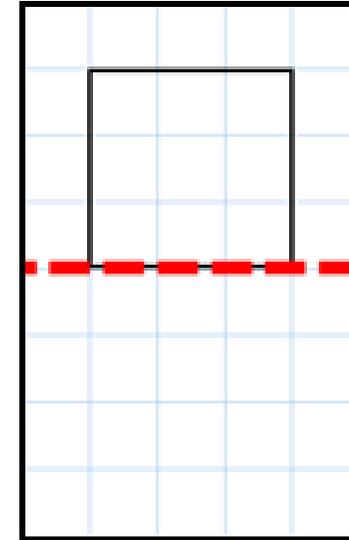
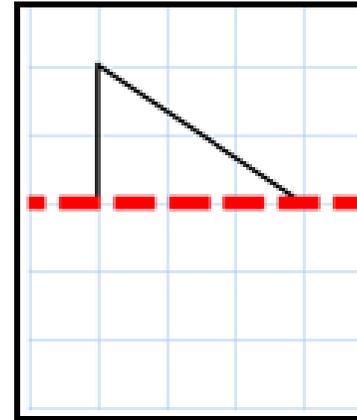
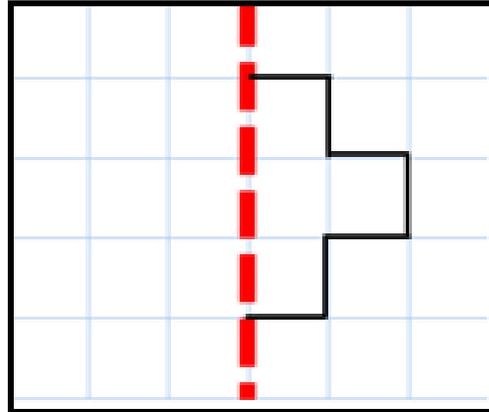
It touches the line of symmetry then goes diagonally outwards and upwards 2 squares.

The reflected diagonal will do the same thing in the opposite direction.



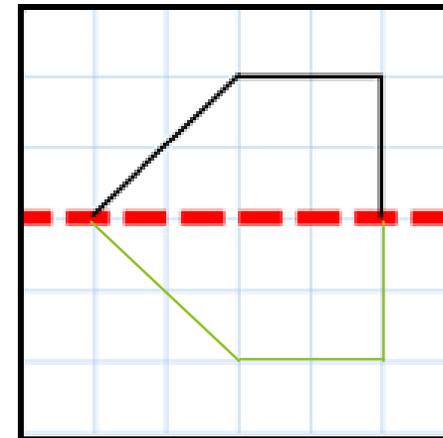
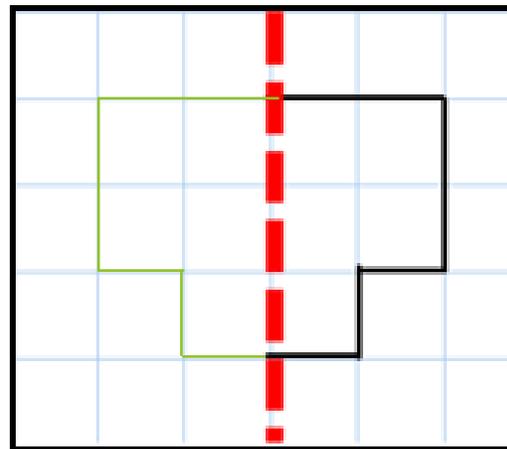
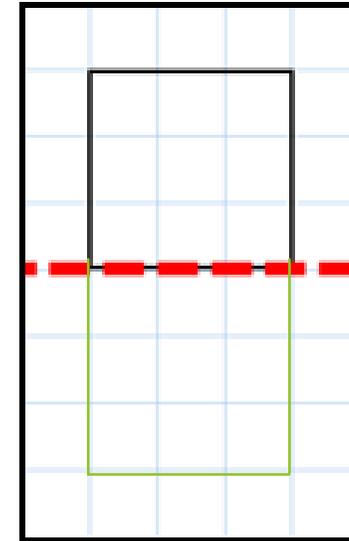
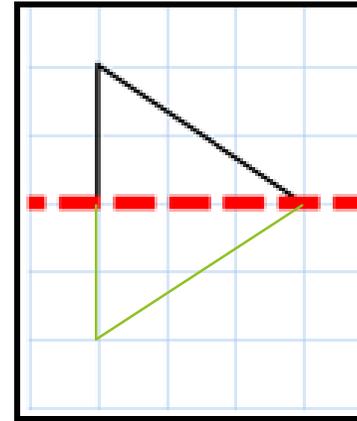
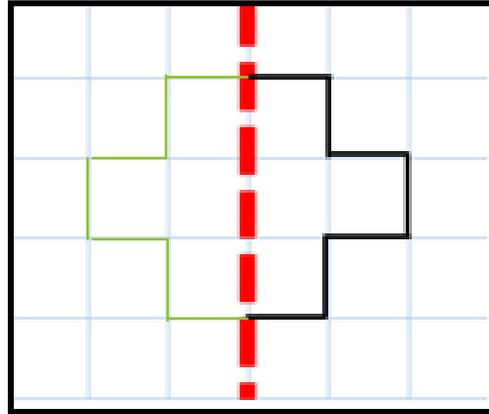
ONE CHILLI

- ▶ Complete these shapes.
- ▶ Remember to look at the squares on the grid in the background to guide you.



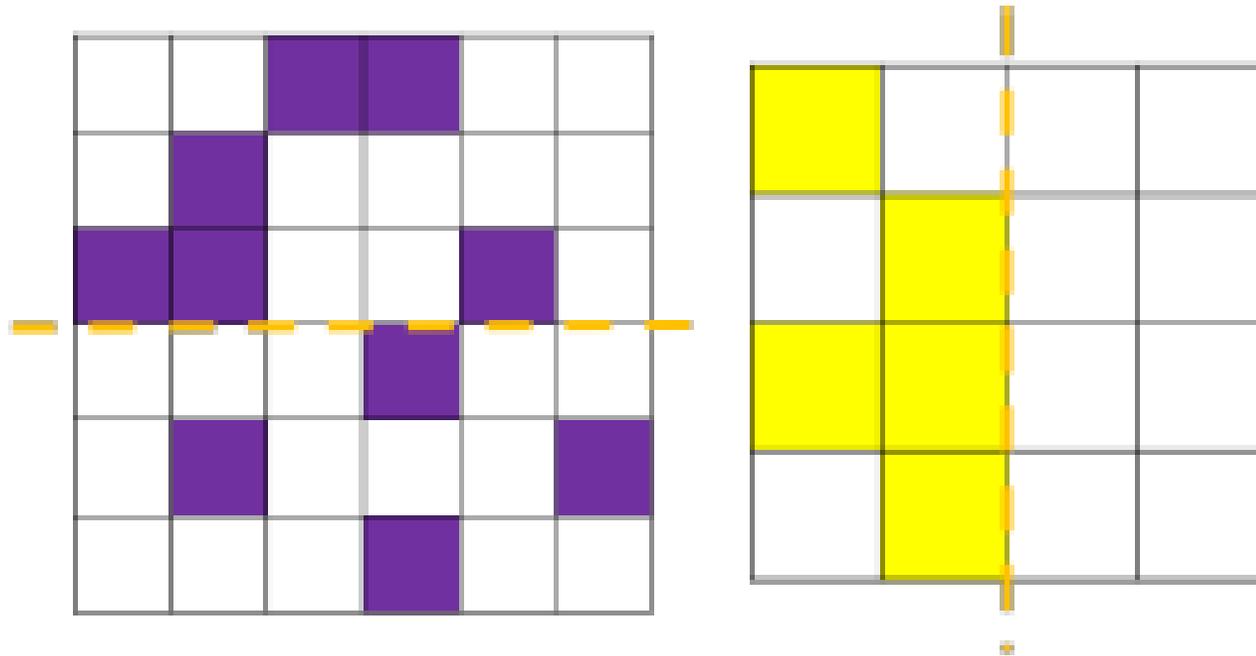
ONE CHILLI answers

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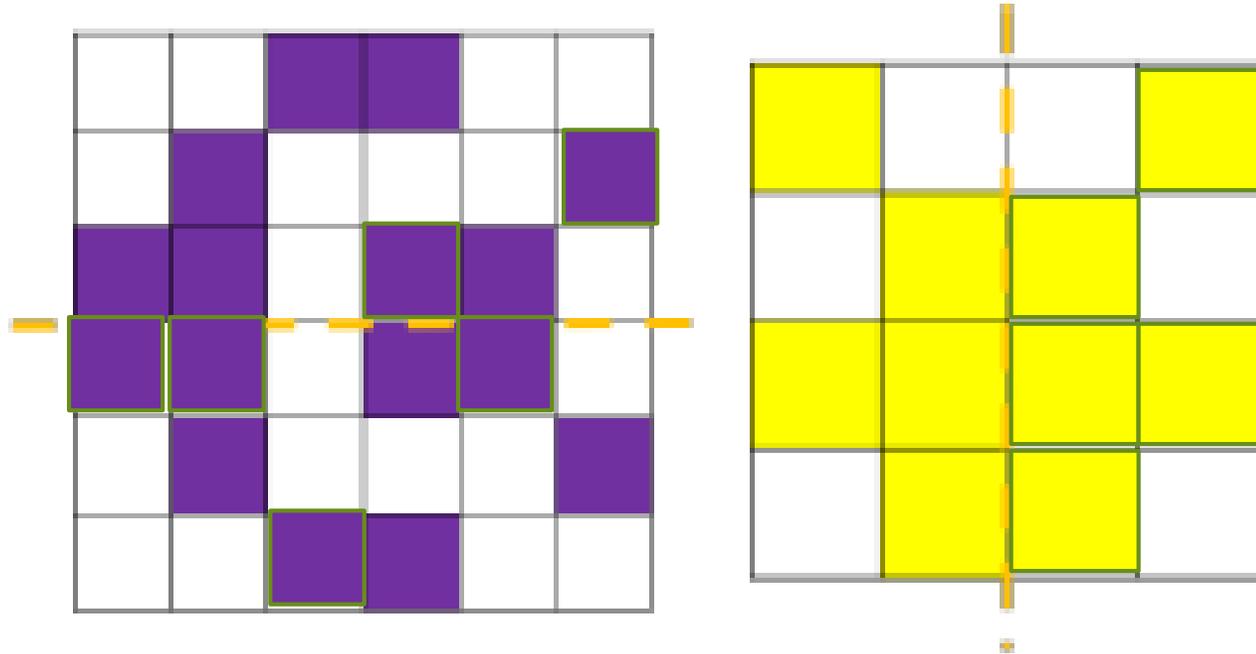
TWO CHILLIES

Colour the squares to make the pattern symmetrical.



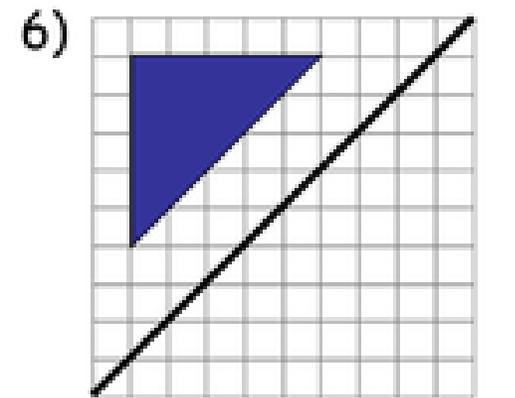
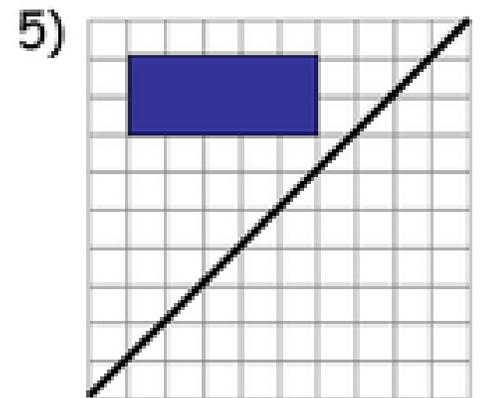
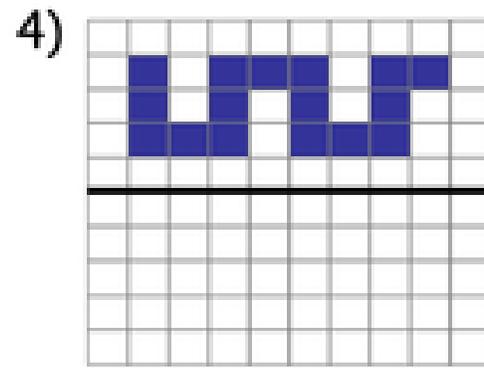
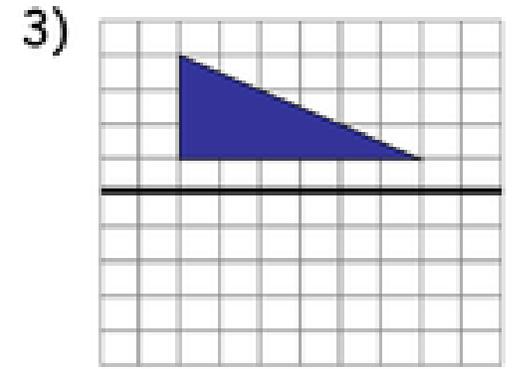
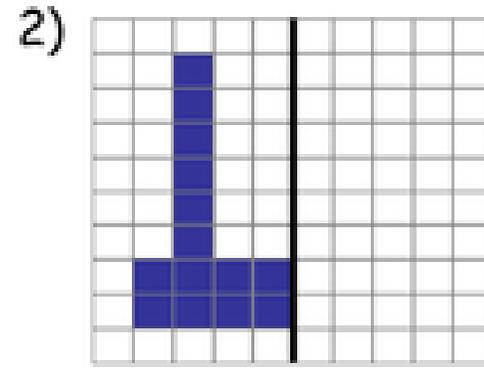
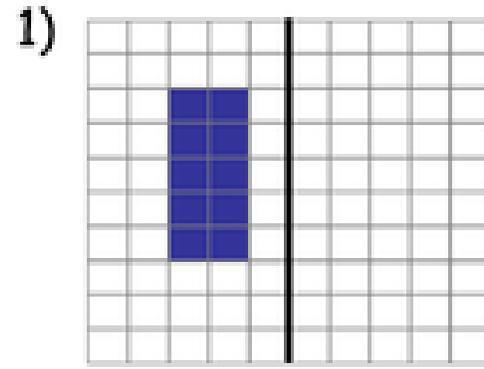
TWO CHILLIES answers

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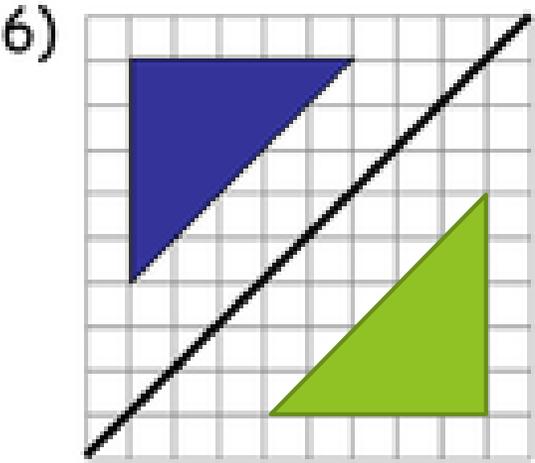
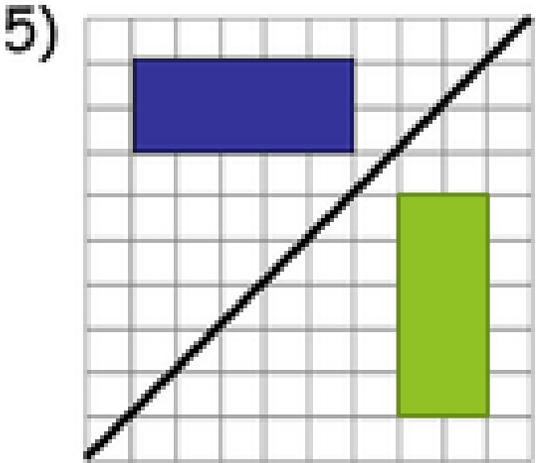
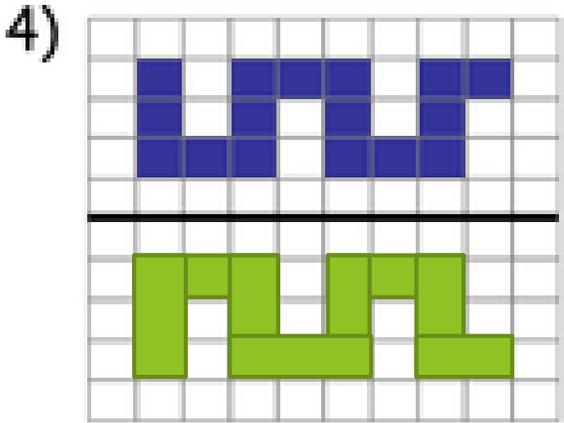
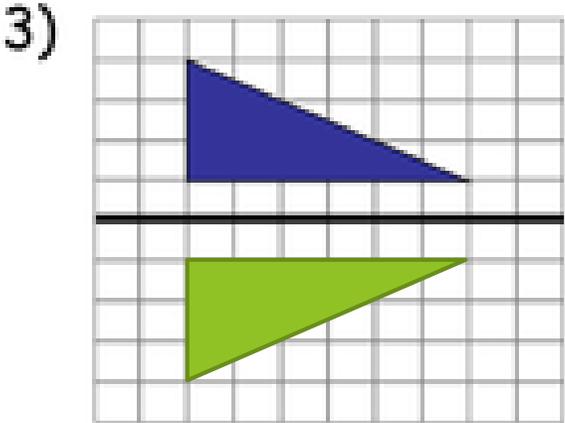
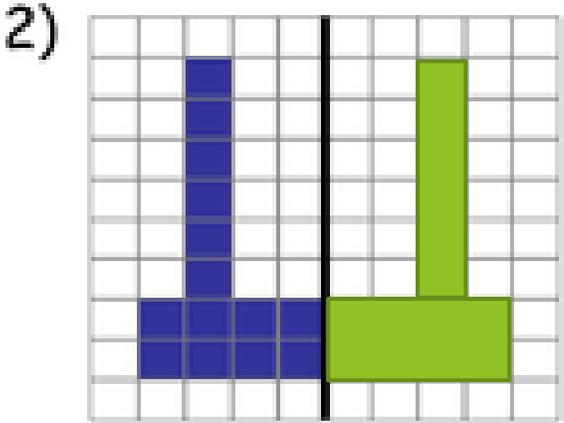
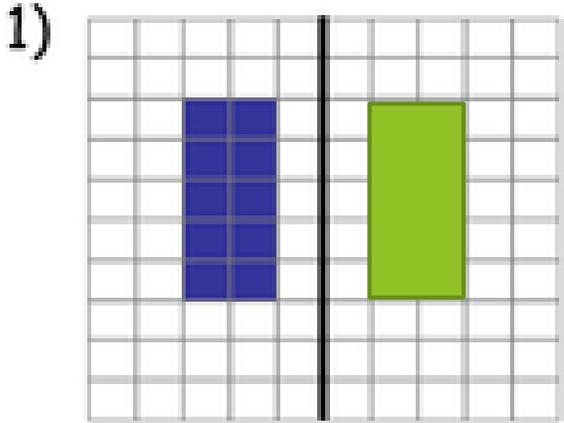
THREE CHILLIES

Reflect the shapes in the mirror lines



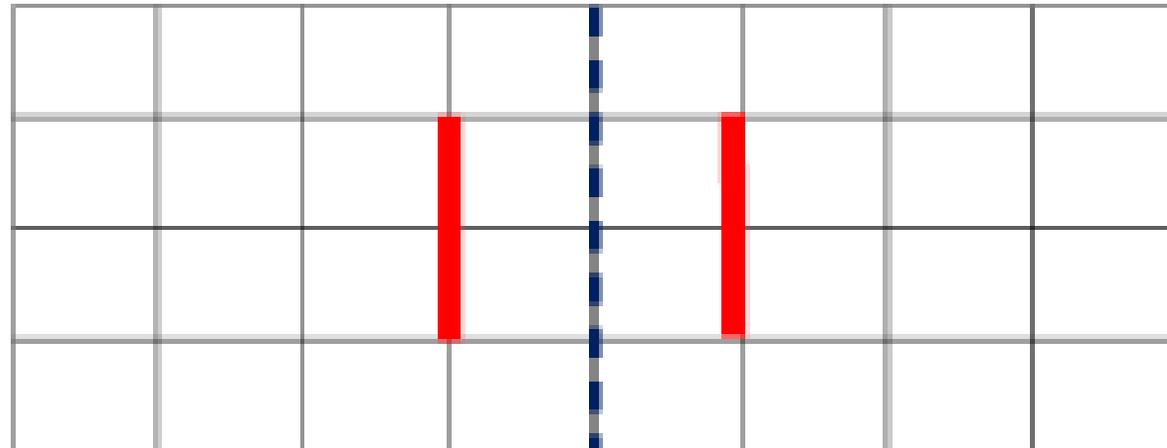
When you get to questions 5 and 6, try turning the paper round so that the line of symmetry appears vertical.

THREE CHILLIES answers



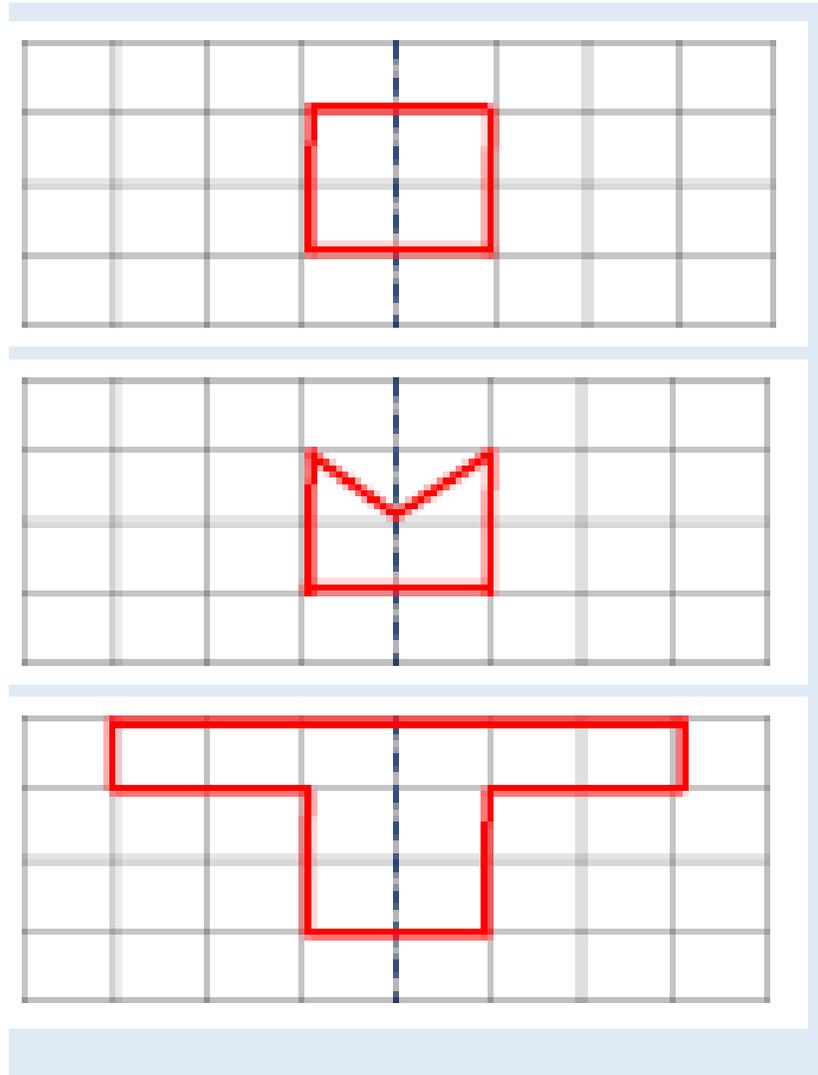
DIVE DEEPER 1

How many different symmetrical shapes can you create using the given sides?



DIVE DEEPER 1 example answers

Children will find a variety of shapes.
For example:



DIVE DEEPER 2 - flag investigation

- ▶ Use an atlas or the internet to look at flags of countries. How many can you find that are symmetrical? Can you draw the line of symmetry?

Self assessment - how did you do?

- ▶ SOME WILL EVEN draw symmetrical shapes and patterns across a given line of symmetry
- ▶ SOME will reflect shapes across a diagonal line of symmetry
- ▶ MOST will reflect shapes across horizontal and vertical lines of symmetry
- ▶ ALL will use a grid to help reflect shapes