Name _____ Date _____

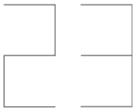
Master 7.14

Step-by-Step 1

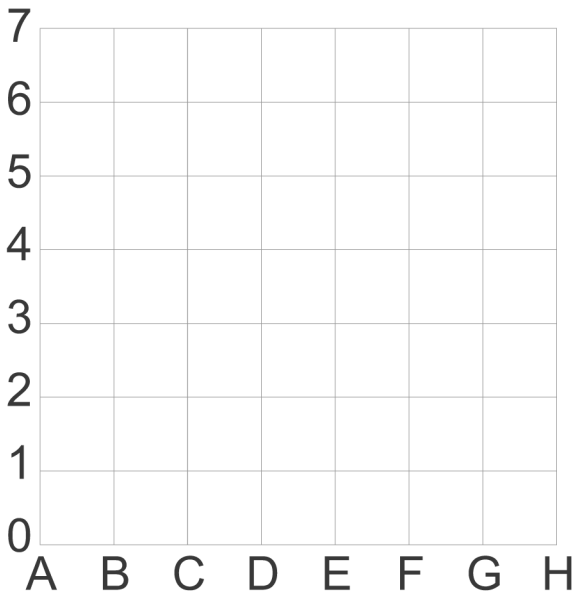
Lesson 1, Question 3

Step 1 Choose any 2-digit number. _____

Write your number using only line segments.
For example, write the number 23 like this:



Step 2 Draw the number from *Step 1* on the grid below.
Make certain the line segments lie on grid lines.



Step 3 Record the coordinates of the corners of the digits.

_____

_____

Write instructions to draw your number.

_____

_____

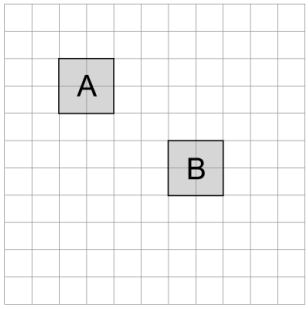
Name _____ Date _____

Master 7.15

Step-by-Step 2

Lesson 2, Question 4

Use tracing paper.



Step 1 Which translation would move Figure A to coincide with Figure B?

_____

Step 2 Think of a rotation.
Mark a dot on the picture above to show the turn centre
that would turn Figure A to coincide with Figure B.
What fraction of a turn would Figure A move?

_____

Step 3 Above, draw Figure C congruent to Figures A and B.
Describe a transformation that would move
Figure A to coincide with Figure C.

_____

Describe a transformation that would move
Figure C to coincide with Figure B.

_____

Name _____ Date _____

Master 7.16

Step-by-Step 3

Lesson 3, Question 4

You will need a 5 by 5 geoboard, geobands, and dot paper.

Step 1 Divide the geoboard into 2 congruent parts.
How many different ways can you do this? _____
Record each way on dot paper.

Step 2 Use your results from *Step 1*.
Divide the geoboard into 4 congruent parts.
How many different ways can you do this?
Record each way on dot paper.

Step 3 Use your results from *Step 2*.
Divide the geoboard into 8 congruent parts.
How many different ways can you do this? _____
Record each way on dot paper.

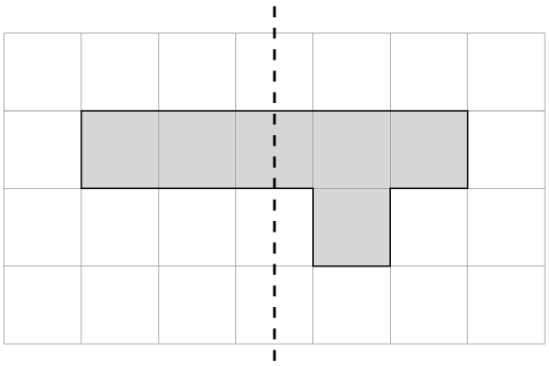
Name _____ Date _____

Master 7.17

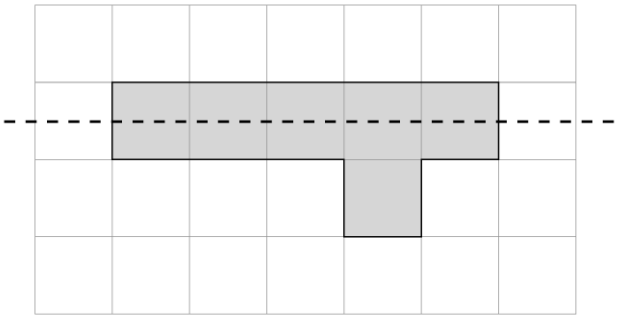
Step-by-Step 4

Lesson 4, Question 5

Step 1 Add a square to this figure so the broken line is a line of symmetry.

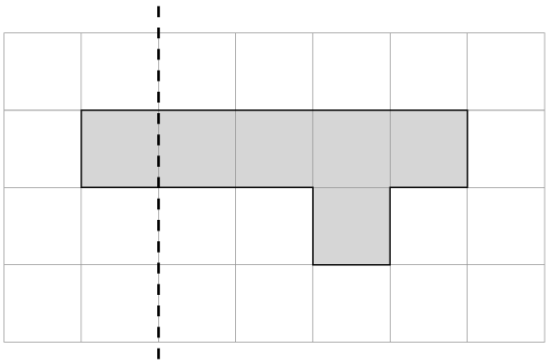


Step 2 Add a square to this figure so the broken line is a line of symmetry.



Step 3 Is it possible to add a square to this figure so the broken line is a line of symmetry? How do you know?

_____



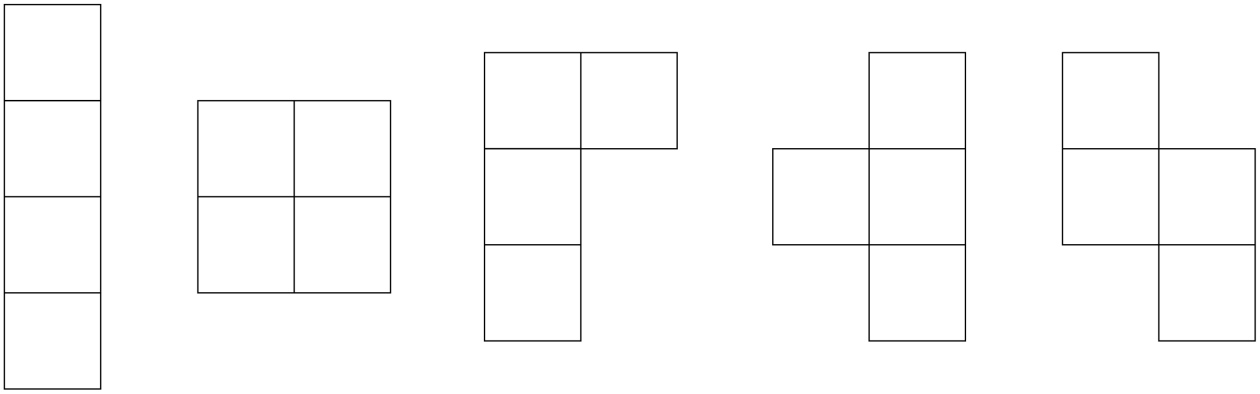
Name _____ Date _____

Master 7.18

Step-by-Step 6

Lesson 6, Question 3

A tetromino is made with 4 congruent squares.
There are 5 different tetrominoes.



You will need 2-cm grid paper and scissors.

Step 1 Choose one of the tetrominoes.
Draw 8 copies of the tetromino on grid paper.
Use scissors. Cut out the copies.
Try to arrange the tetrominoes in a tiling pattern.

Step 2 Repeat *Step 1* four times.
Each time use a different tetromino.

