



ZORBIT'S MATH ADVENTURE



5 VALENTINE'S MATH ACTIVITIES



HEART TRIO

Materials:

- Heart Trio template (attached)
- Scissors

Directions:

Pair up students and hand each of them a Heart Trio template.

For younger students, have each student in the pair represent the number by drawing ten frames, or by creating a group. For older students, have each student in the pair represent the number by finding an equivalent expression.

When each group is finished, instruct them to cut up the heart into three pieces. Cut out all the heart pieces, and redistribute them throughout the class, giving one heart piece to each student.

On your mark, have all the students try to match up their hearts with the equivalent amount.

Extensions:

If your class is working on a particular operation right now, the multiplication, you could challenge your students to only use multiplication operations.

Math Concept:
Find equivalent ways of writing a number using different models or operations.

Number of Students:
WHOLE CLASS

10 $5+5$
 5×2

7 $2 \times 3 + 1$
 2×5

ZORBIT'S MATH ADVENTURE Page 1



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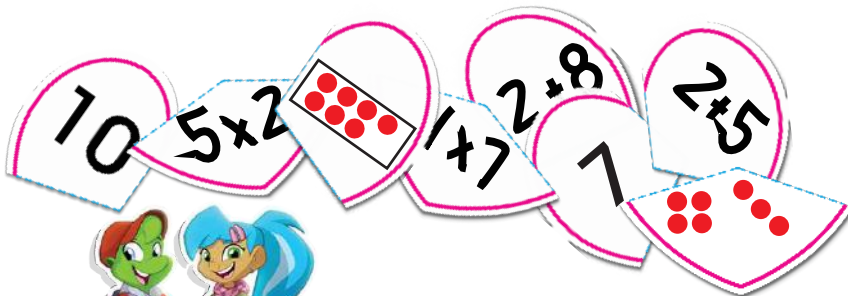
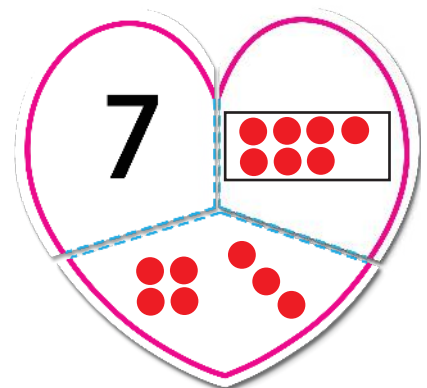
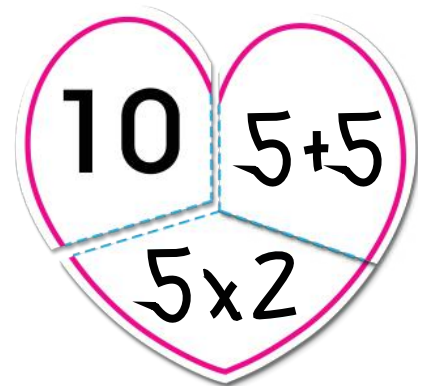


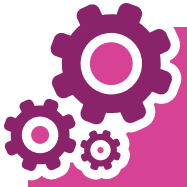
Math Concept:

Find equivalent ways of writing a number using different models or expressions

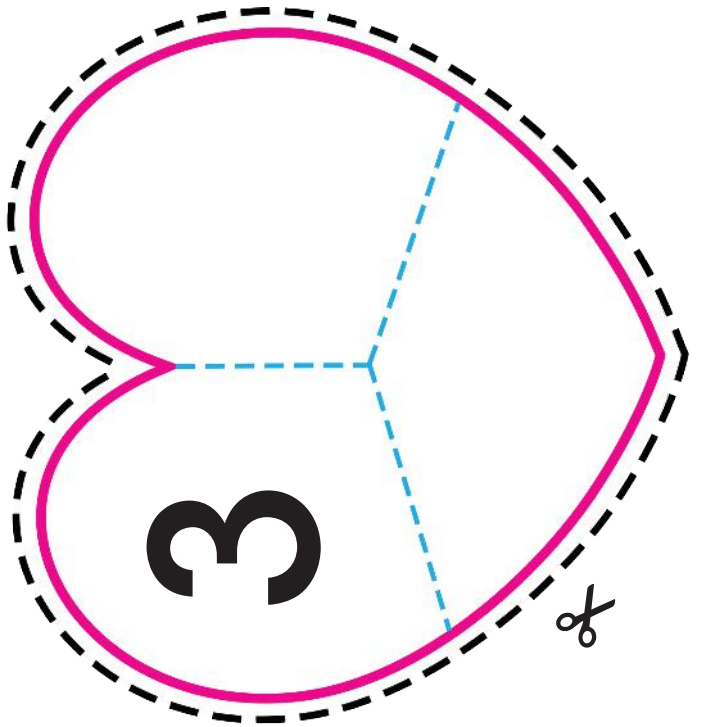
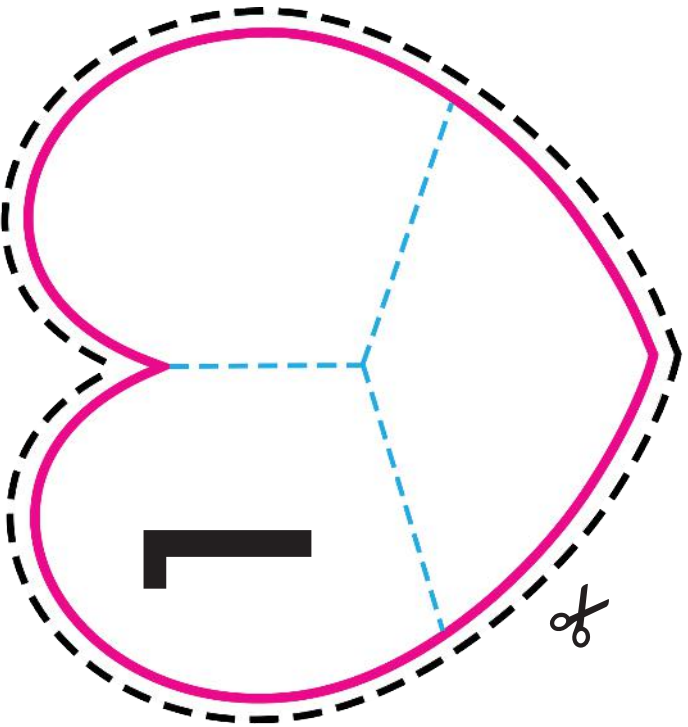
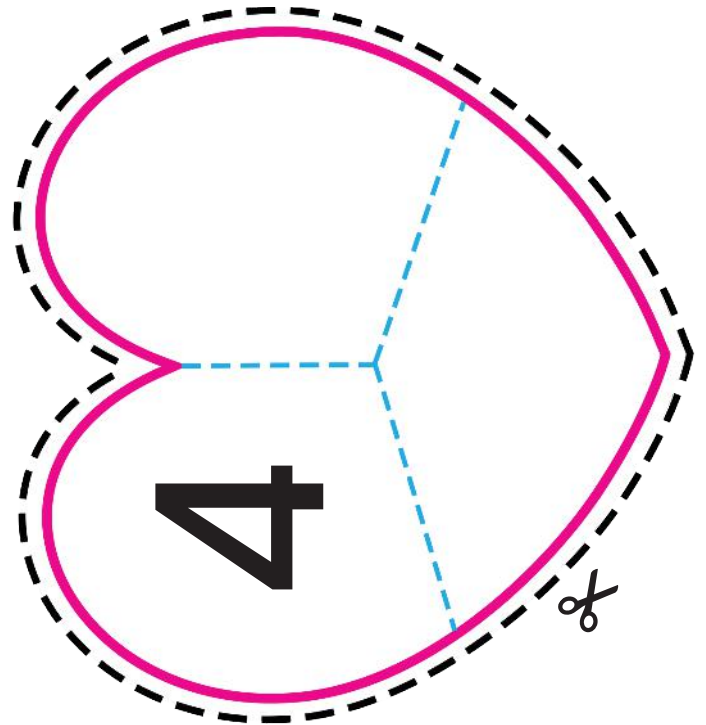
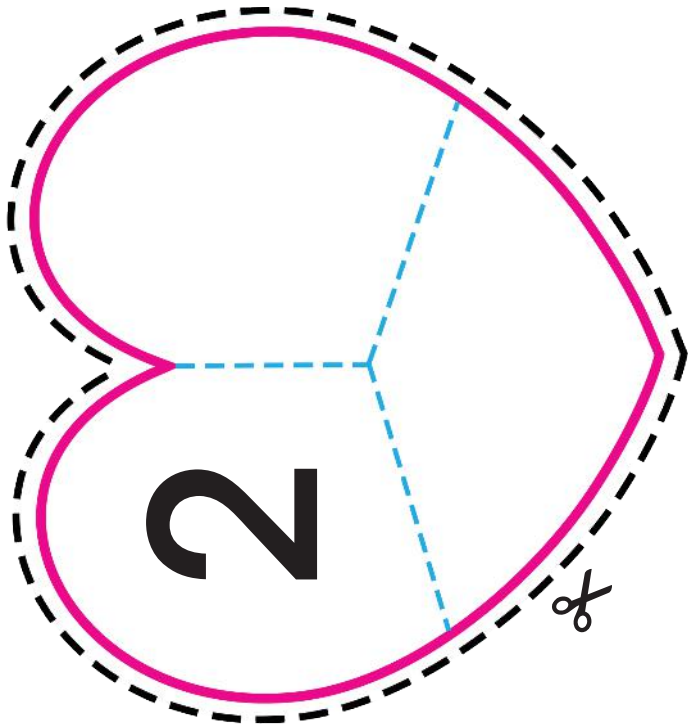
Number of Students:

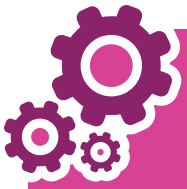
WHOLE CLASS



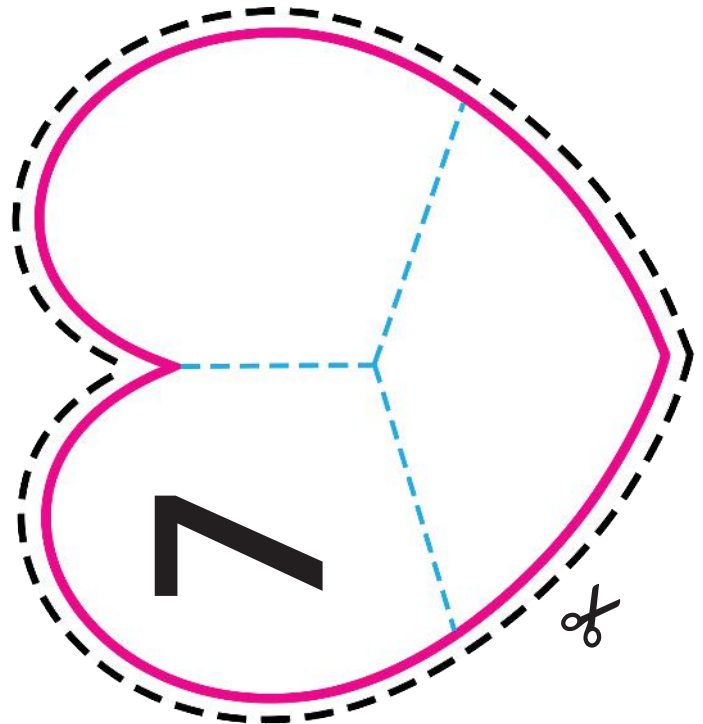
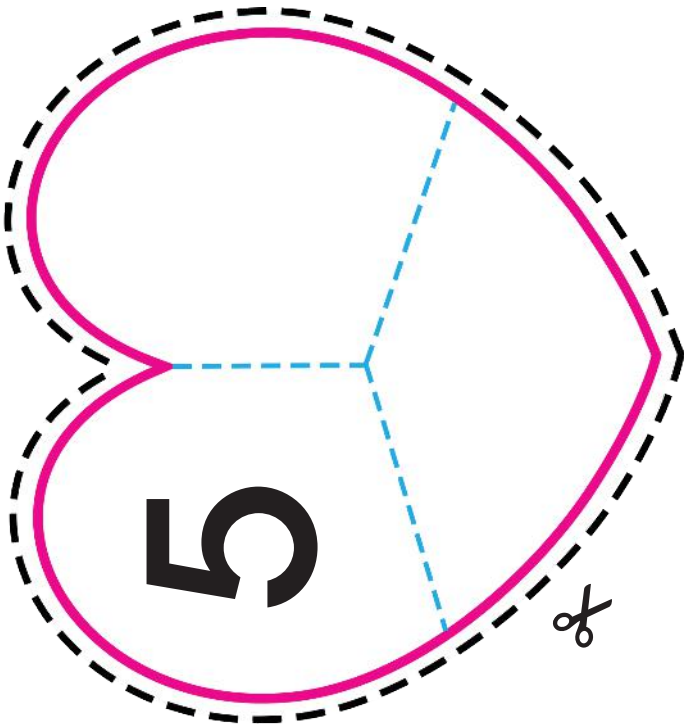
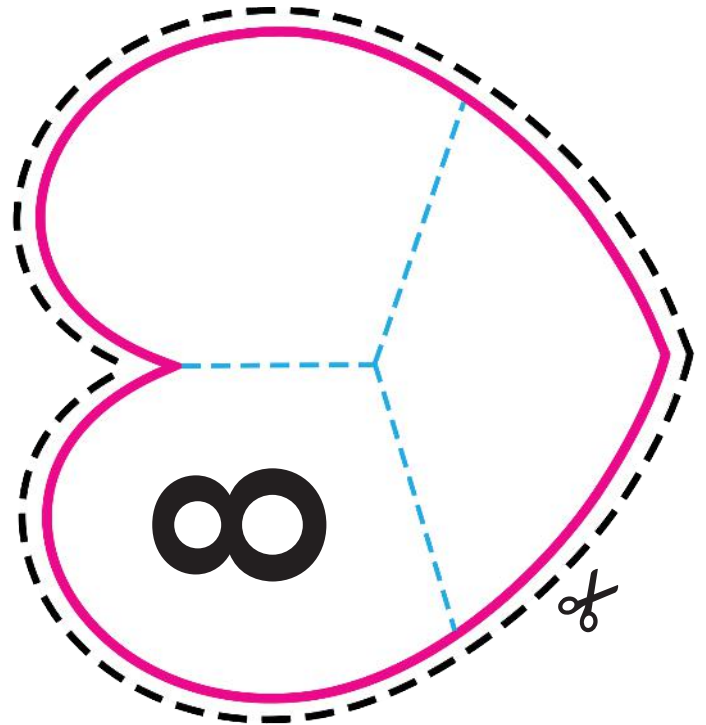
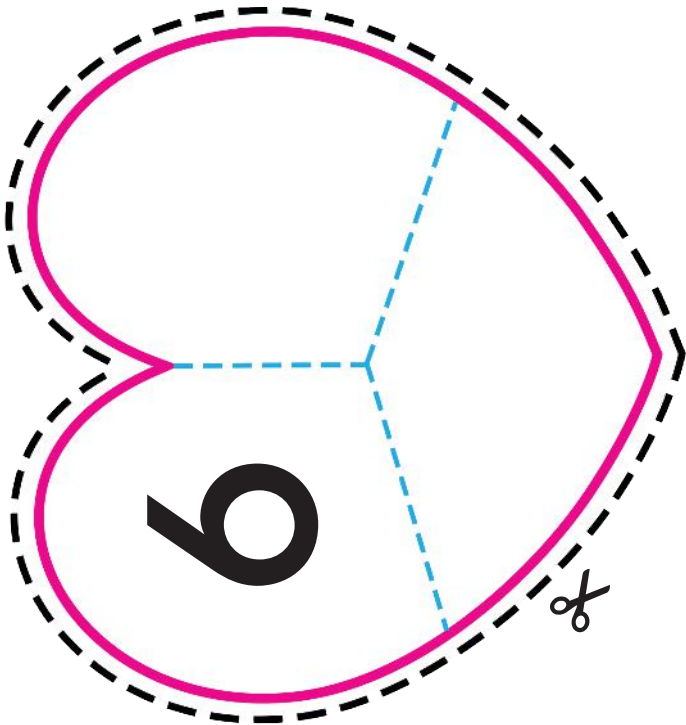


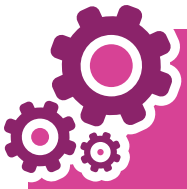
HEART TRIO



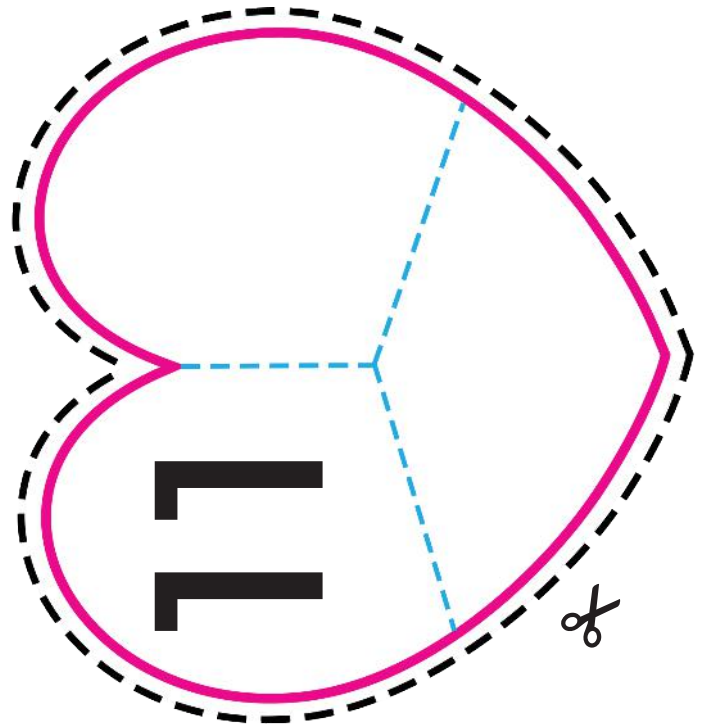
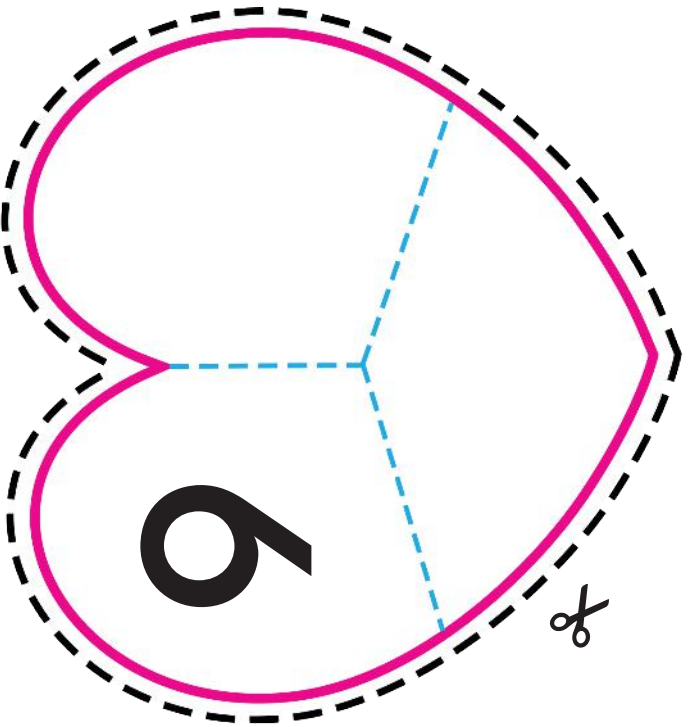
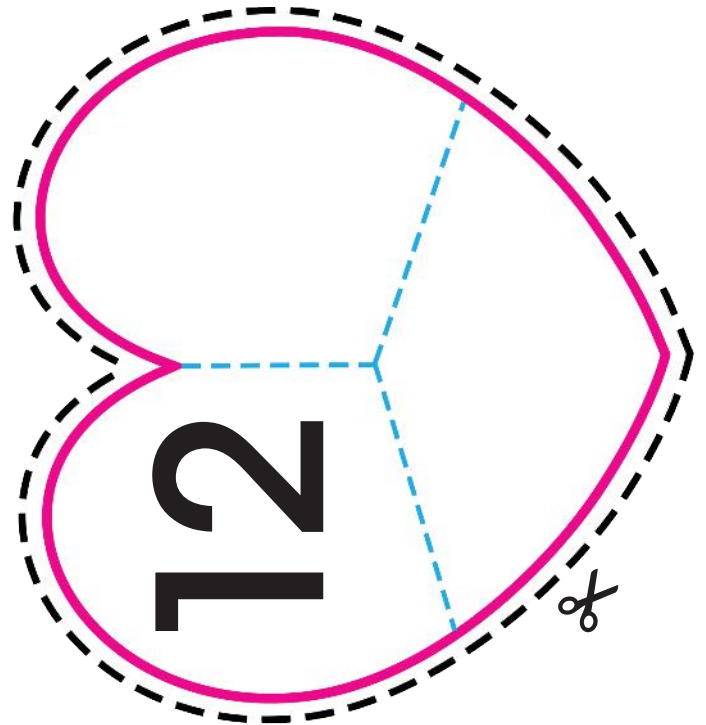
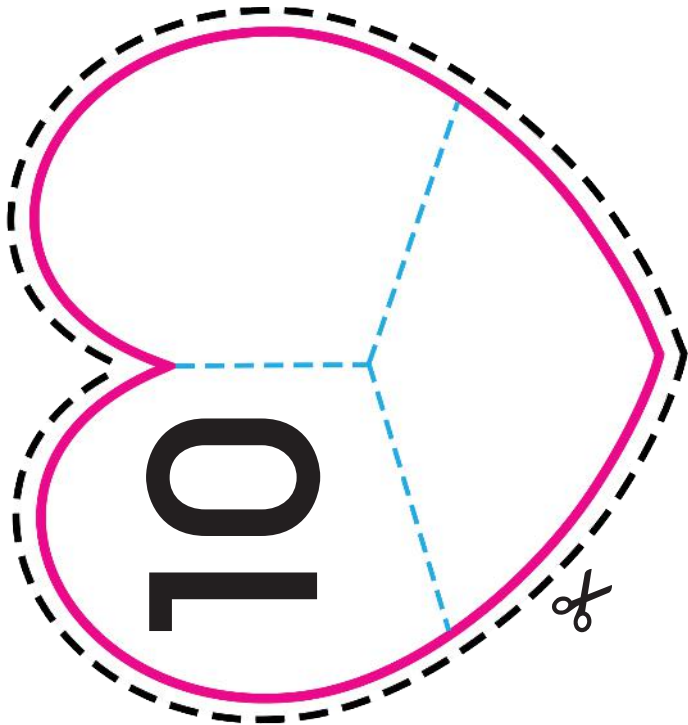


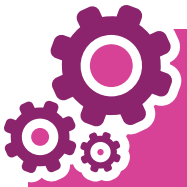
HEART TRIO





HEART TRIO





ROSE BUDS

Materials:

- Rose Bud template (attached)
- Scissors and Glue



Math Concept:

Compose and decompose a number as two parts using pictures, manipulatives or symbols

Number of Students:

INDIVIDUAL

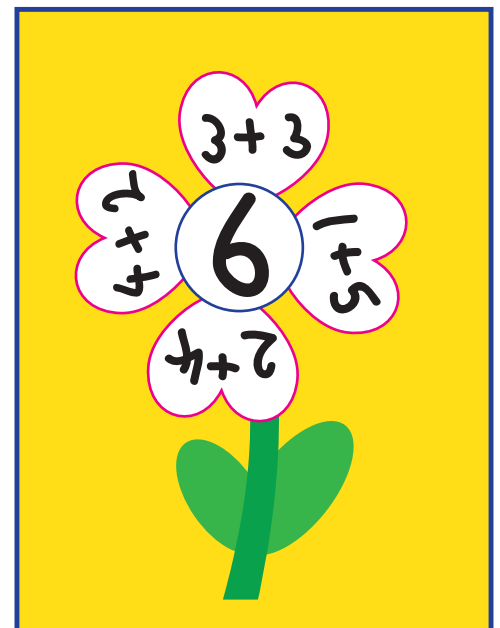
Directions:

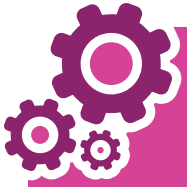
Provide each student with a Rose Bud template. Have each student cut out the flower pieces and write a number from 6-12 in the centerpiece of the flower.

Students need to try to find as many different combinations that they can add together that creates the number in the middle of their rose. Students can then arrange their flower petals and glue them to the outside of their rose.

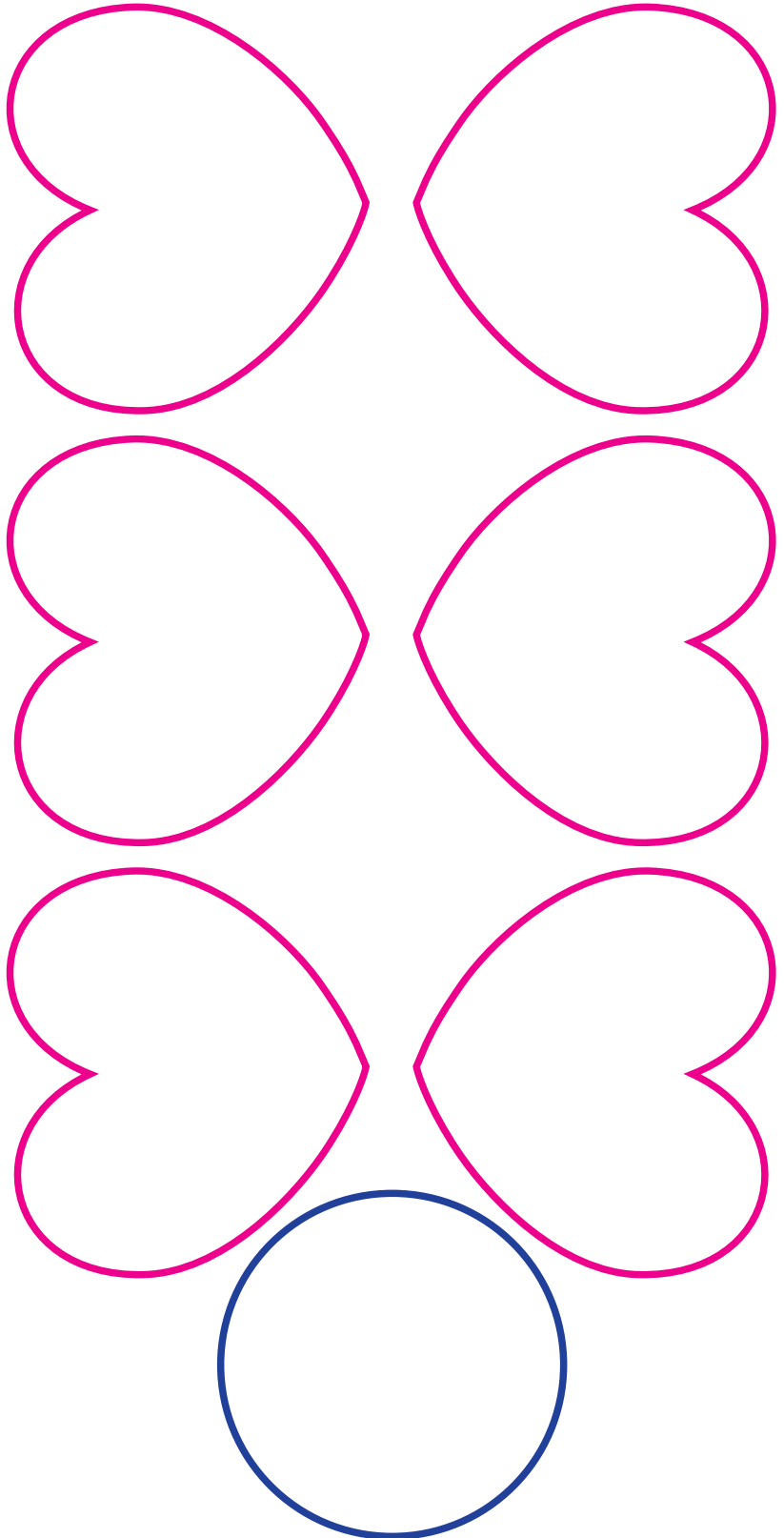
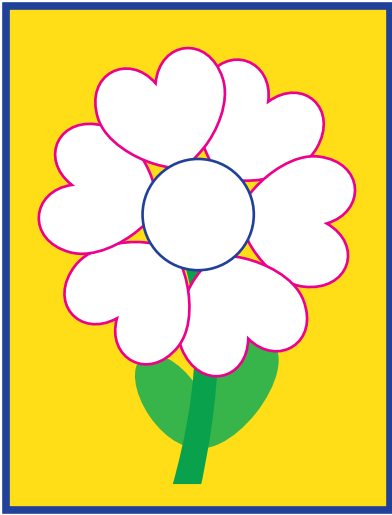
Extensions:

Is writing $3 + 4$ on a petal the same thing as writing $4 + 3$? This could be a great opportunity to discuss the commutative property of addition. With older students, you could use larger numbers in the middle, such as 18, and have the students try to come up with all of the different multiplication sentences that also equal that number.





ROSE BUDS





THE BIGGEST SQUID SQUEEZE

Materials:

- Squid template (attached)

- Scissors



- Pencil



Math Concept:

Use direct comparison to compare objects based on their length

Number of Students:

SMALL GROUPS

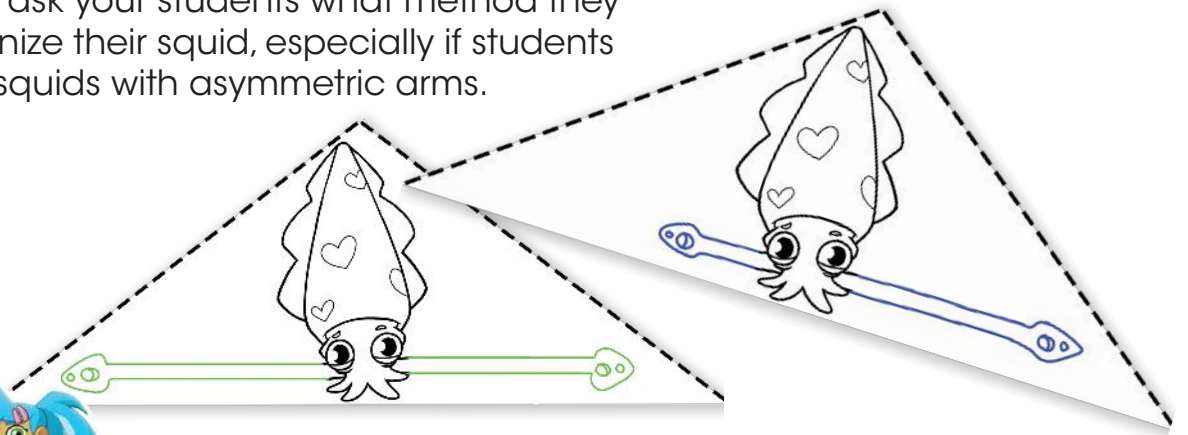
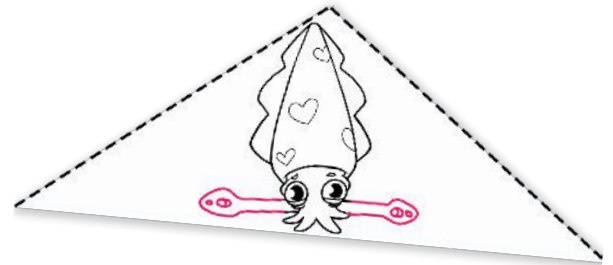
Directions:

Cut out the Squid Templates and give one to each student in a group. Each student needs to draw the tentacles of the squid (they can be as long, or as short, or as asymmetric as they want).

When each student is finished, have them cut out their squid. The group needs to arrange the squid from widest to least wide in order to find out which has the biggest and the smallest hug.

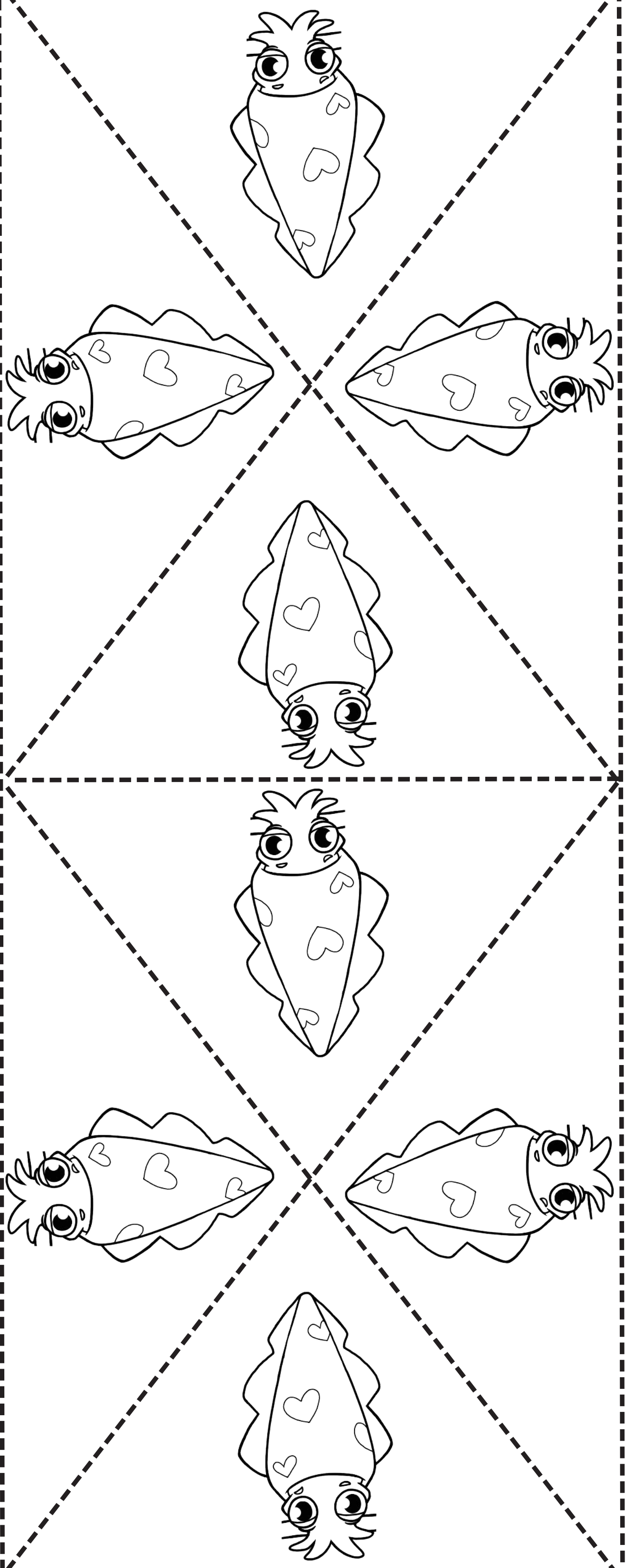
Extensions

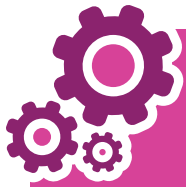
Make sure to ask your students what method they used to organize their squid, especially if students have drawn squids with asymmetric arms.





THE BIGGEST SQUID SQUEEZE





FRIEND-BOT SHAPES

Materials:

- Friend-bot activity sheet (attached)
- Construction paper



- Glue



- Scissors



Math Concept:

Correctly name shapes, regardless of their overall size or orientation

Number of Students:

INDIVIDUAL

Directions:


Provide each student with a copy of the Friend-bot activity sheet, construction paper, and glue. Have each student complete their Friend-bot by adding parts that are geometric shapes.

When they are finished, have them meet up with a partner whose job it is to identify how many of each shape was used to make the Friend-bot.

Students can challenge each other by making composite shapes, like the robot's hands in the picture, so students must decompose them into simpler shapes.

Extensions:

Ask your students to include trapezoids, rhombuses, hexagons and more into their Friend-bot, or challenge your students to create a symmetric robot.



FRIEND-BOT SHAPES


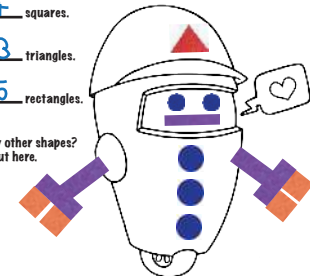
There are 5 circles.

There are 4 squares.

There are 3 triangles.

There are 5 rectangles.

Are there any other shapes?
Write them out here.



Page 2



FRIEND-BOT SHAPES

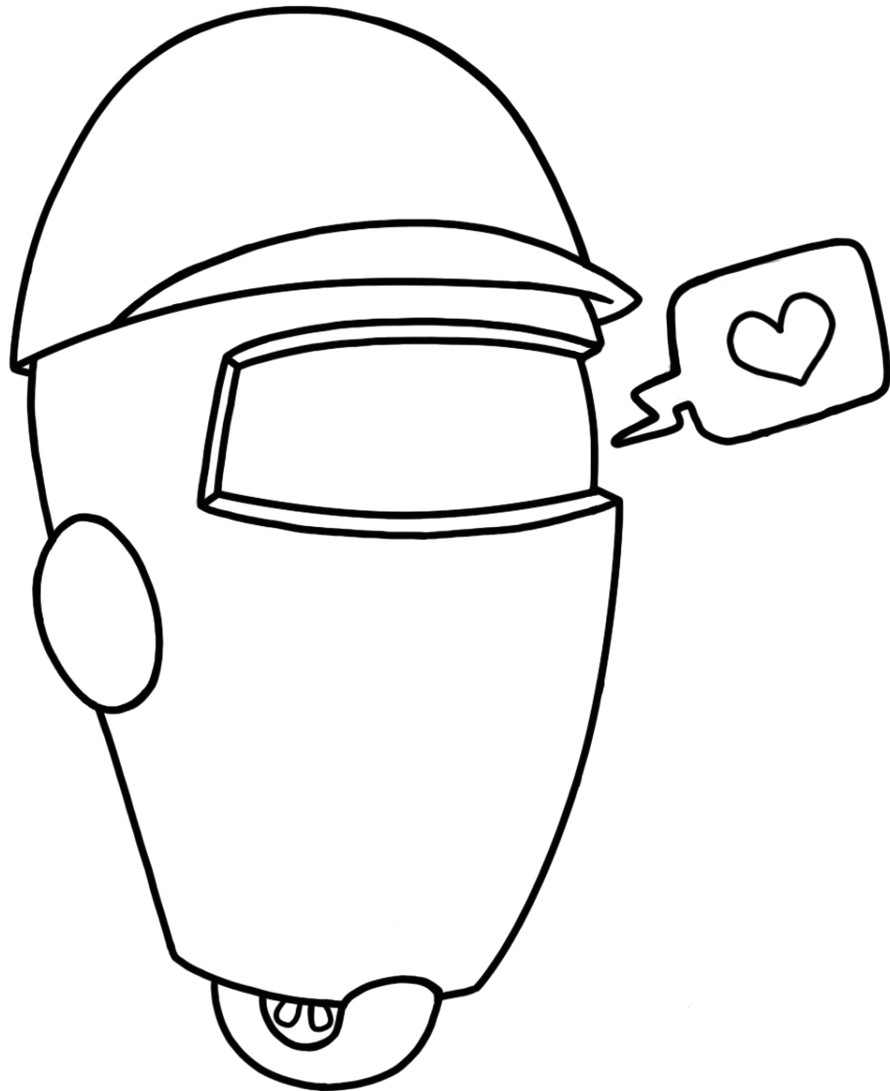
There are _____ circles.

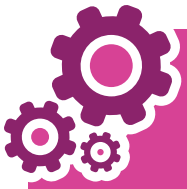
There are _____ squares.

There are _____ triangles.

There are _____ rectangles.

Are there any other shapes?
Write them out here.





HEART PATTERNS

Materials:

- Pattern blocks



- Heart Pattern template (provided)

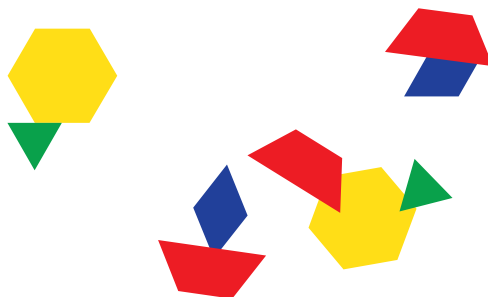
Directions:

Provide each group with a copy of the heart template. Students need to use their pattern blocks to try to analyze and compose the shapes.

There are two copies of the heart templates provided: one with each of the individual shape outlines visible, and the other with the shape outlines hidden.

Extensions:

You could also challenge your students to try to create their own unique heart pattern in whatever way they choose.

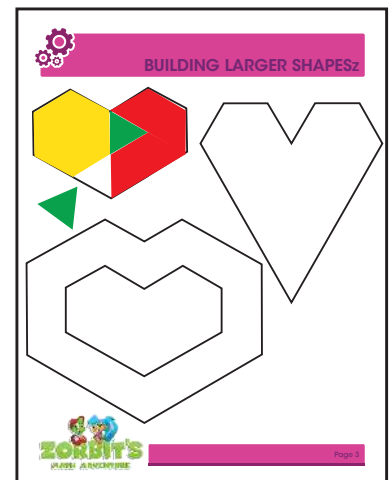
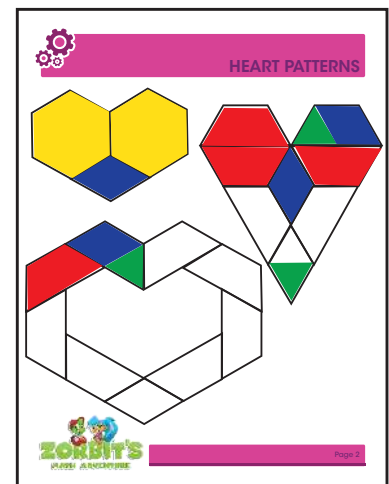


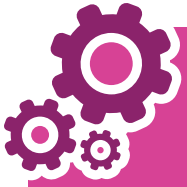
Math Concept:

Compose larger shapes from many simple shapes

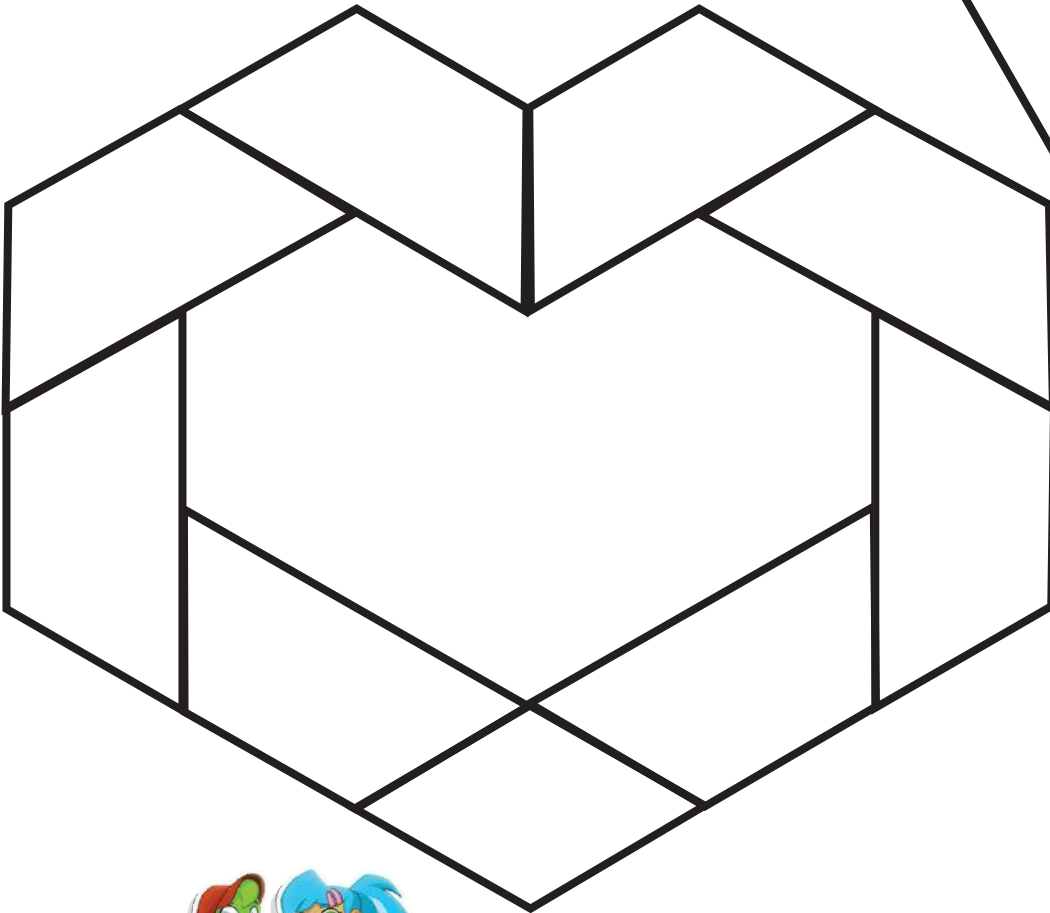
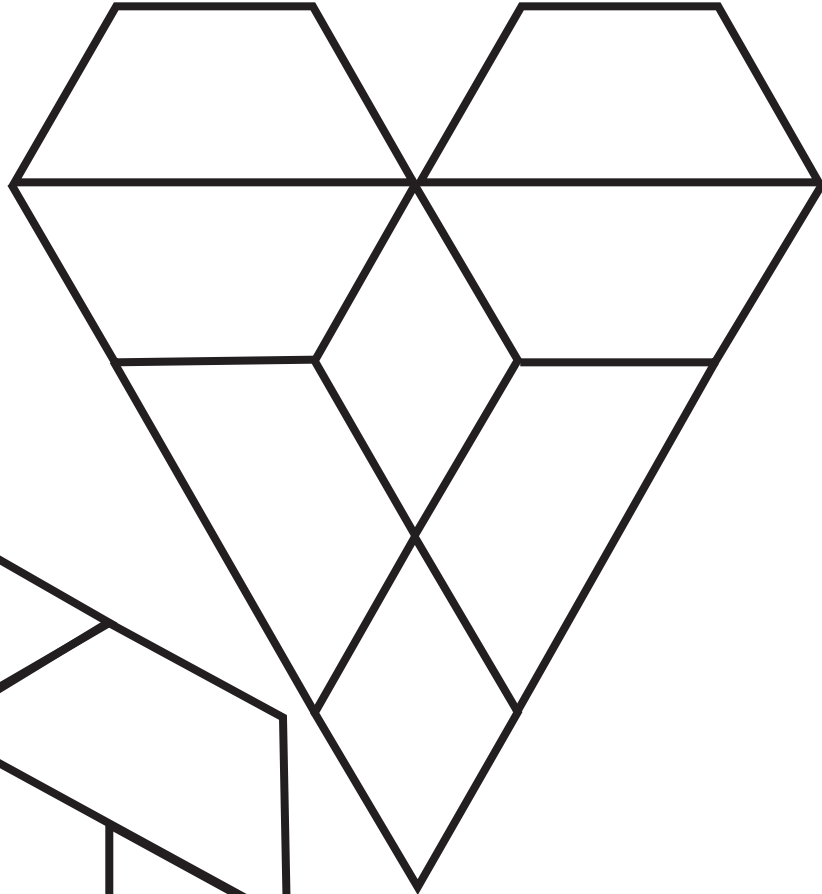
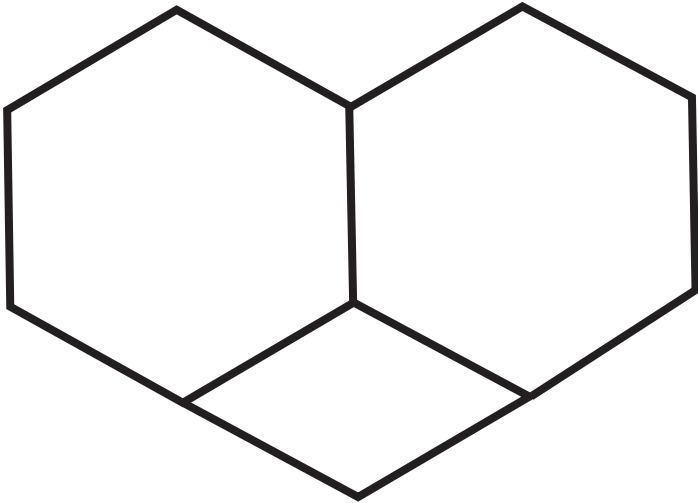
Number of Students:

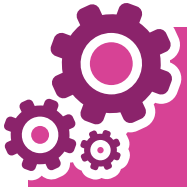
INDIVIDUAL or **SMALL GROUPS**





HEART PATTERNS





HEART PATTERNS

