



ZORBIT'S MATH ADVENTURE

HOLIDAY MATH ACTIVITIES





HANGING UP THE STOCKINGS

Materials:

- Stocking template (attached)
- Part/Part/Whole (Three part) Mats (attached)

- Counters



- Scissors and Glue



Math Concept:

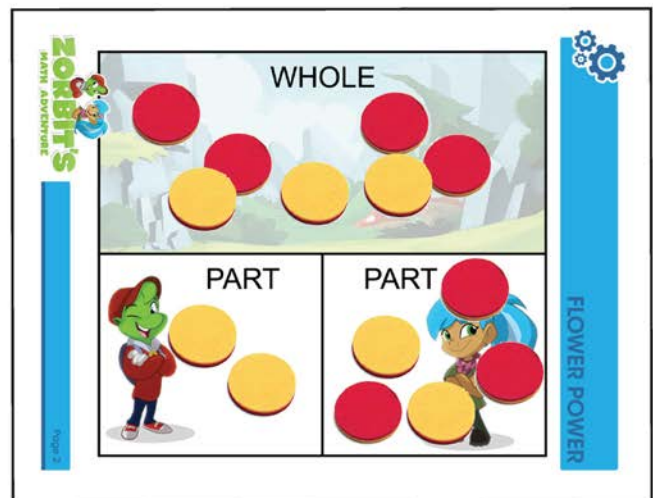
Compose and decompose a number as two parts using pictures, manipulatives or symbols.

Number of Students:

INDIVIDUAL

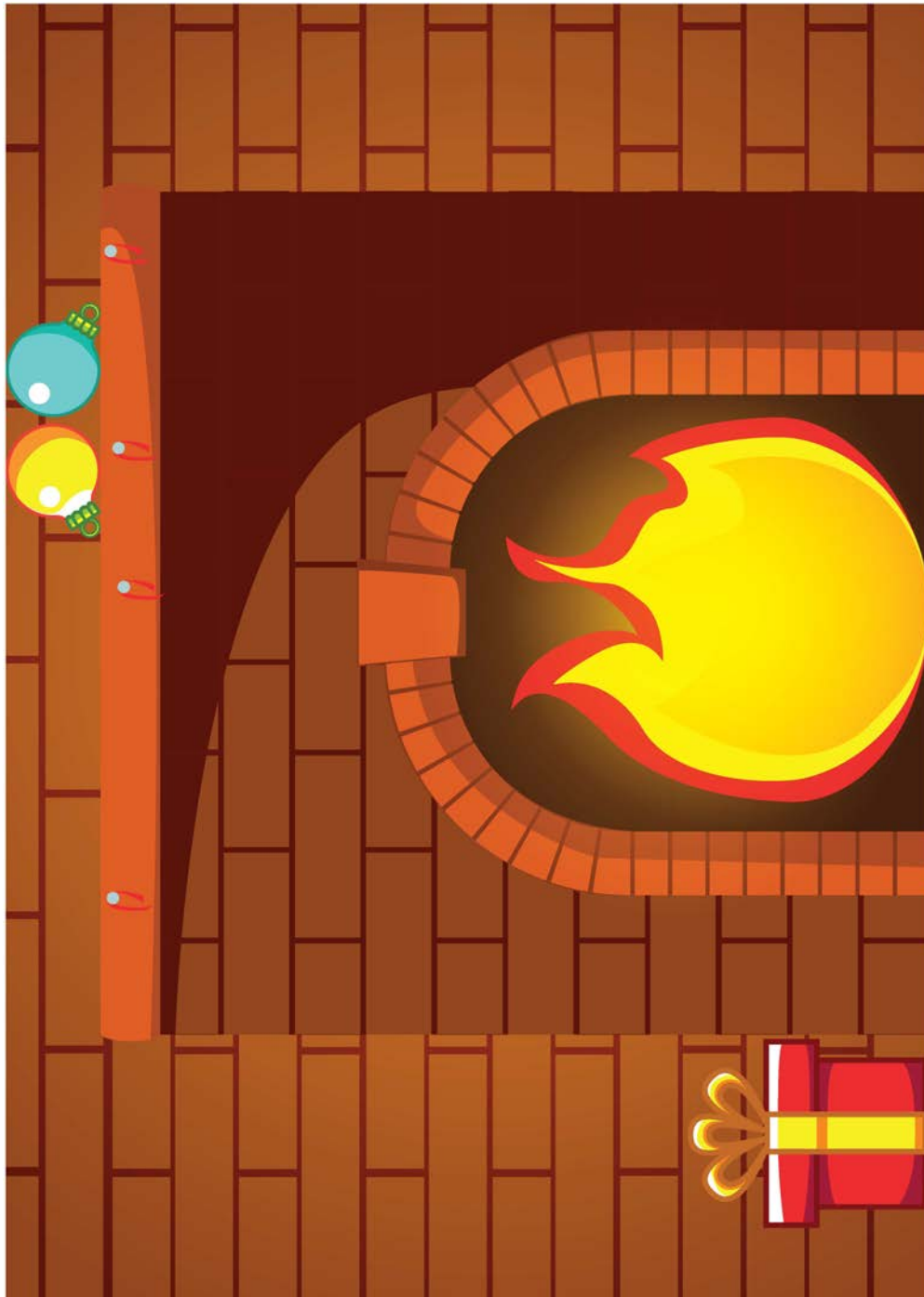
Directions:

Provide each child with a Stocking template. Have children cut out the stockings and write a number from 4 to 10 on the centre piece of the mantle piece. Using the counters and a Part/Part/Whole mat children will create combinations of their chosen number and write these combinations as equations on the stockings. Children will hang their stockings onto a piece of construction paper and decorate.





HANGING UP THE STOCKINGS





HANGING UP THE STOCKINGS





HANGING UP THE STOCKINGS

WHOLE



PART



PART





SORTING ORNAMENTS

Materials:

- Ornament template (attached)



Math Concept:

Sort a set of objects based on a single attribute, and explain the sorting rule.

Number of Students:

WHOLE GROUP, SMALL GROUP, INDIVIDUAL

Directions:

Children take as many of the ornaments as they want and group them together based on some common attribute. Have the rest of the class try to guess what their sorting rule is.





SORTING ORNAMENTS

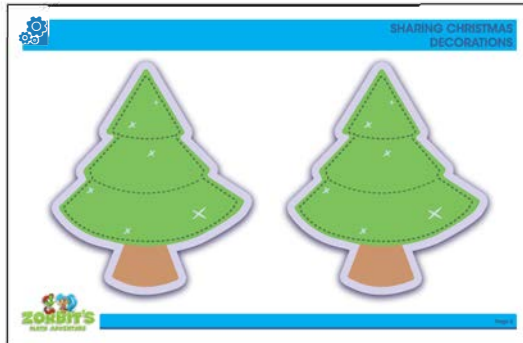




SHARING CHRISTMAS DECORATIONS

Materials:

- Christmas tree template (attached)



Math Concept:

Recognize the meaning of halves when used in context.

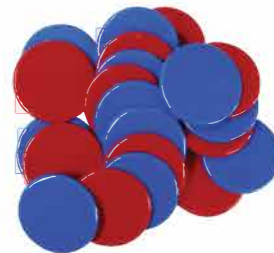
Number of Students:

SMALL GROUP

- Ziplock bags



- Counters



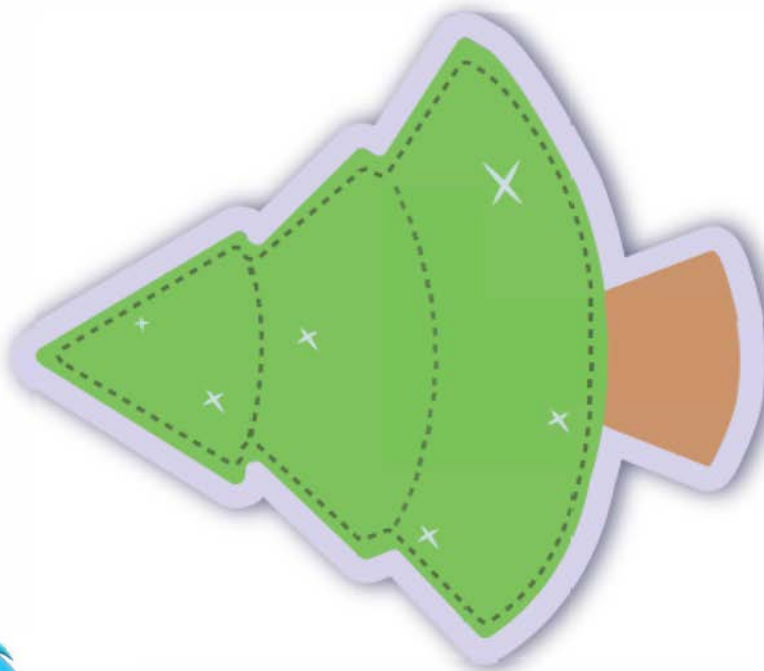
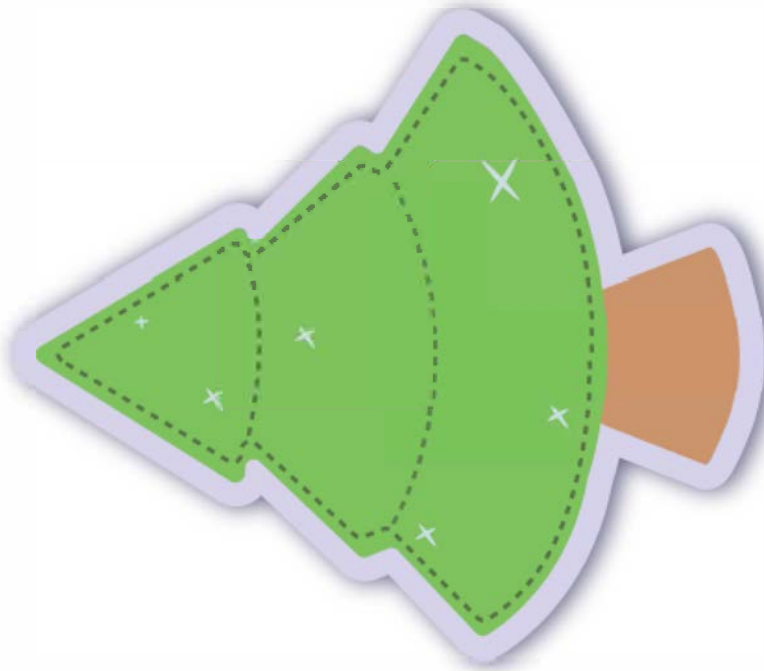
Directions:

Prepare for this activity by filling a number of ziplock bags with counters, between 0 - 20 and by printing out the same number of Christmas Tree worksheets. Have students work in pairs, approaching each bag and investigating whether the number of counters can be split in half or not by decorating them.





SHARING CHRISTMAS DECORATIONS





SNOWMAN SHAPES

Materials:

- Snowman activity sheet (attached)
- Construction paper

- Glue

- Scissors



Math Concept:

Correctly name shapes regardless of their orientations or overall size.

Number of Students:

SMALL GROUP

Directions:

Provide each child with a copy of the snowman activity sheet, construction paper, glue and scissors. Have each student finish their snowman by adding parts that are geometric shapes. When finished, they meet with a partner who will identify how many of each shape was used. Students can challenge each other by making composite shapes, like the hat in the picture, so students must decompose them into simpler shapes.



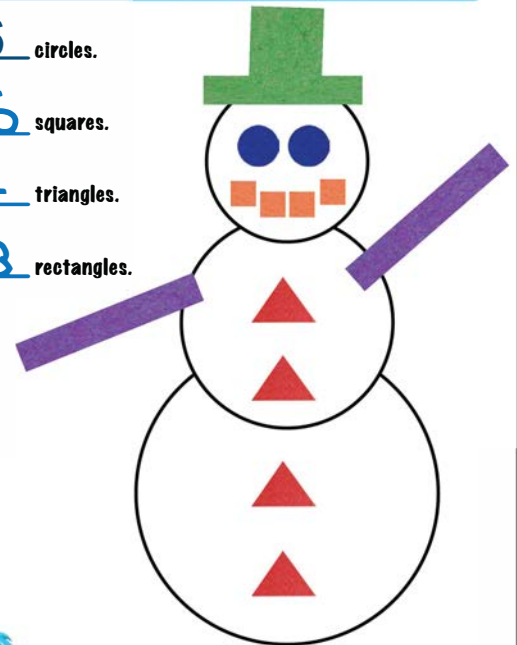
SNOWMAN SHAPES

There are 5 circles.

There are 5 squares.

There are 4 triangles.

There are 3 rectangles.



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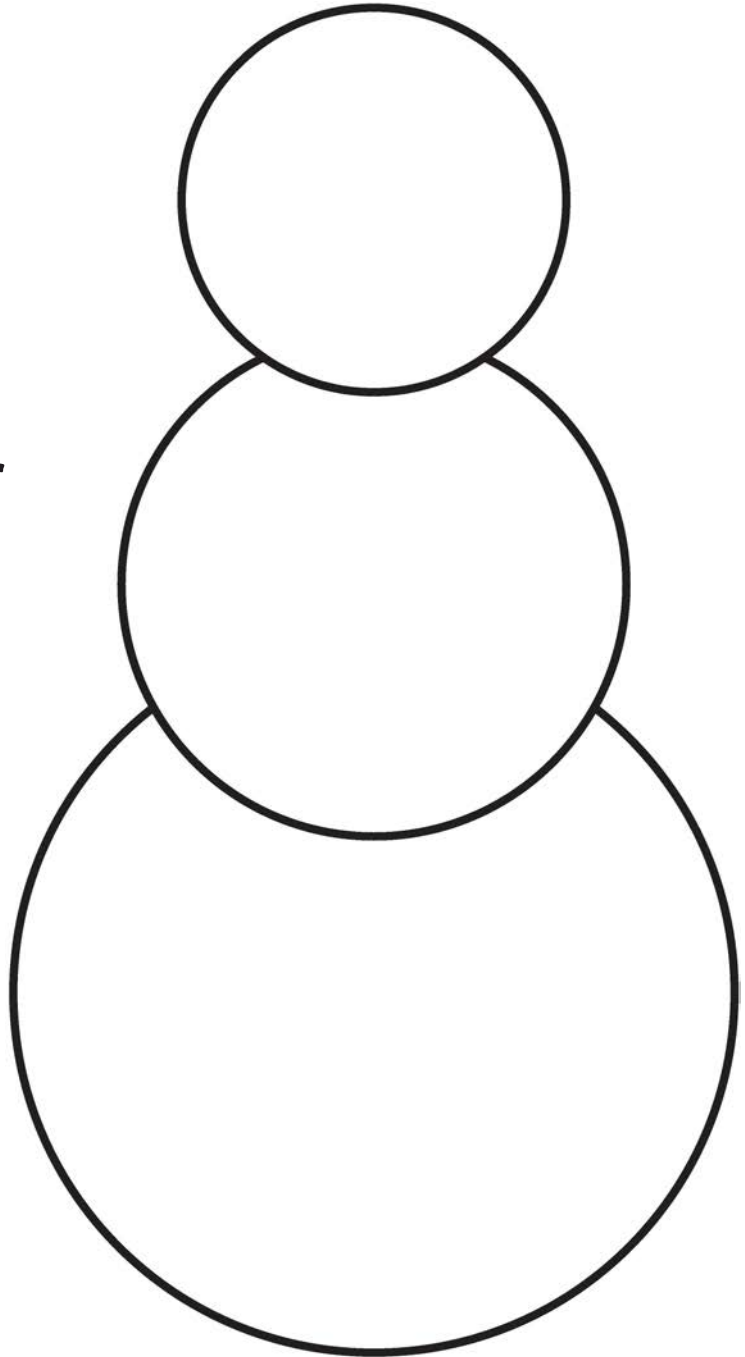
SNOWMAN SHAPES

There are _____ circles.

There are _____ squares.

There are _____ triangles.

There are _____ rectangles.





SHORTER OR LONGER

Materials:

- Wrapping paper strips



- Scissors



- Worksheet (attached)



Math Concept:

Use direct comparison to compare objects based on a single attribute such as length (height), mass (weight), and volume (capacity).

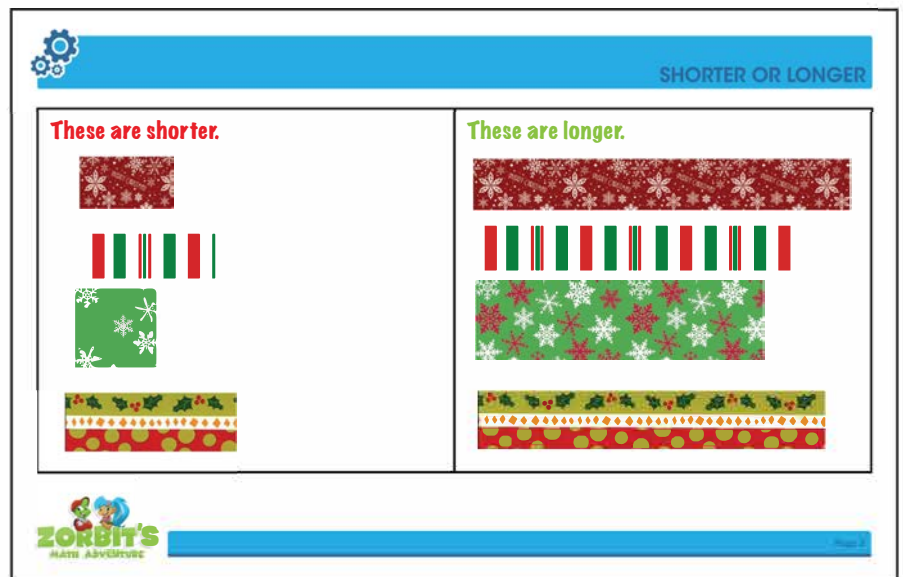
Number of Students:

SMALL GROUP/PARTNERS

Directions:

Students cut strips of the same length from different coloured wrapping paper. The students take turns cutting a strip into two pieces, while the other puts the pieces on the shorter or longer side of the template. Encourage students to make it challenging by making the length close in size. Once all pieces are cut, have

students look for the relationship between the strips (e.g., the longest coloured piece has the shortest matching piece on the other side). Have students decide if each piece is closest to zero, one half, or the whole of the strip. They can mark on where they think one half would be if the strip was joined together.





SHORTER OR LONGER

These are shorter.

These are longer.