



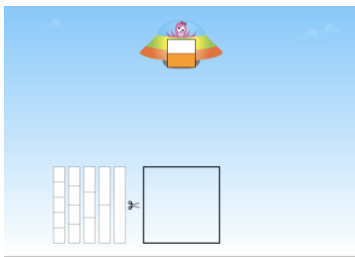
Standards

1.G.A.3: Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.

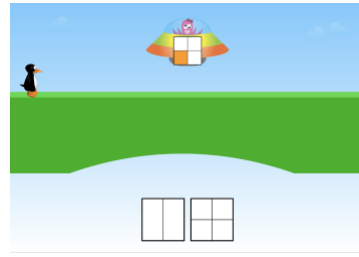
Game Description

Combine the shaded parts of two equivalent wholes together.

Suggested Puzzles



Level 1



Level 2

Materials

Vocabulary Cards, whiteboards and markers

Directions

- Play puzzles with halves and fourths from Level 1. Have students discuss what they notice about the puzzles.
- Discuss how they determined which cutting strip to select.
- Make sure to highlight equal parts/same size, number of partitions, vocabulary students might use (half, fourth, half of, fourth of, quarter).
- Discuss that the size of each partition is equal (the same).
- In Level 2, ask students to compare the puzzle with halves and fourths to select from on the bottom.
- Look for students to compare the number of pieces the square is cut into and the size of each partition.

Sample Questions

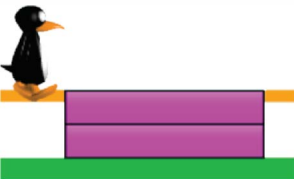
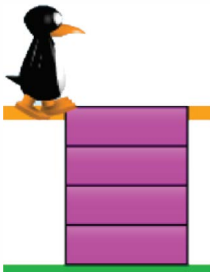


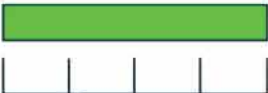
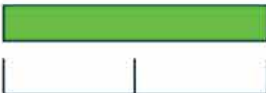


- How did you select the cutting strip?
- How do you know this will work?
- How did you determine how many partitions to select?

What to look for

- How does the student:
- determine how many partitions to divide the shape into?
 - understand the need for the partitions to have an equal area?
 - use the language for fourths and halves?
 - understand that the orientation of the shape does not matter?

Extensions

- Give pairs of students the vocabulary card sort. Have them sort and discuss how they sorted the cards.
- After you cut the square and before they pick the number to color in, have students hold up one of their cards that would go with this puzzle. Discuss a few different cards and why the student chose that card. How does it match the puzzle.

half of	fourth of	
halves	quarters	
fourths	quarter of	
		
		<p>Vocabulary Card Sort 1st grade Equal Shares and Partitioning: Alien Bridge</p>