



Equivalent Fractions

Grade 4

Fraction Equivalence

4 levels

Probing Questions

- How do you know what to select?
- What do the visuals in the sky represent?
- How can you determine if there is more than one possible answer?

Supporting Struggling Students

After students complete all of the fractions, stop the animation and ask to compare the fractions in the ground.

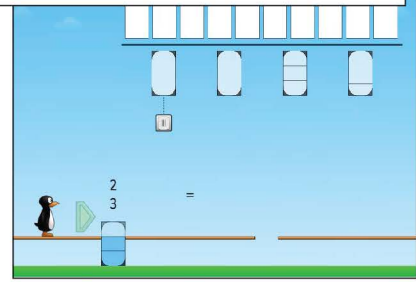
What Do the Standards Say?

Explain why a fraction a/b is equivalent to a fraction $(n \times a)/(n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions. CCSS.Math.Content.4.NF.1

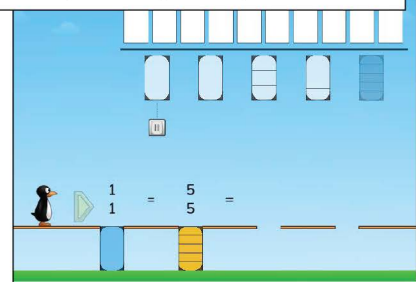
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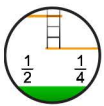
Level 1 requires creating one identical or equivalent fraction.



Levels 2, 3 and 4 require multiple selections.



Fractions - Equivalence and Ordering - 4



Fraction More or Less

Grade 4

Fraction Equivalence

4 levels

Probing Questions

- How do you think about solving this problem when the denominators are the same?
- How do you think about solving this problem when the numerators are the same?

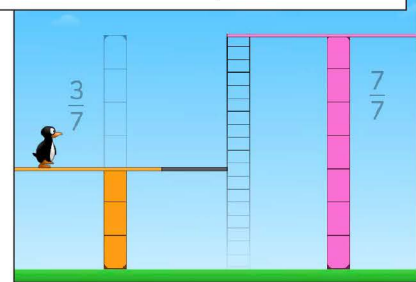
Classroom Connection

This would be a great game to present to students for 5-10 minutes each day. Have students discuss strategies used when they're comparing fractions with the same numerator/denominator.

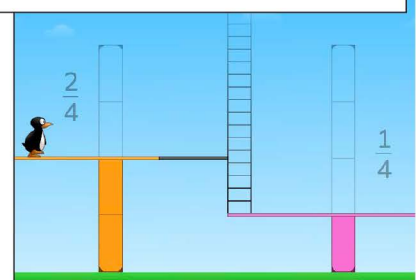
Emphasize the Connection

Ask students which of the numbers would be closer to zero (or half or one) on a number line and have them justify their reasoning.

If the second fraction is larger than the first, the ladder will need to come up from the first.



If the second fraction is smaller than the first, the ladder will need to come down.



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