

Grade 3 Unit 5

Lesson 4

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Unit 5 Lesson 4: Build Fractions from Unit Fractions

WU Number Talk: 3 and Another Factor (Warm up)

Student Task Statement

Find the value of each expression mentally.

- 3×3
- 7×3
- 10×3
- 3×17

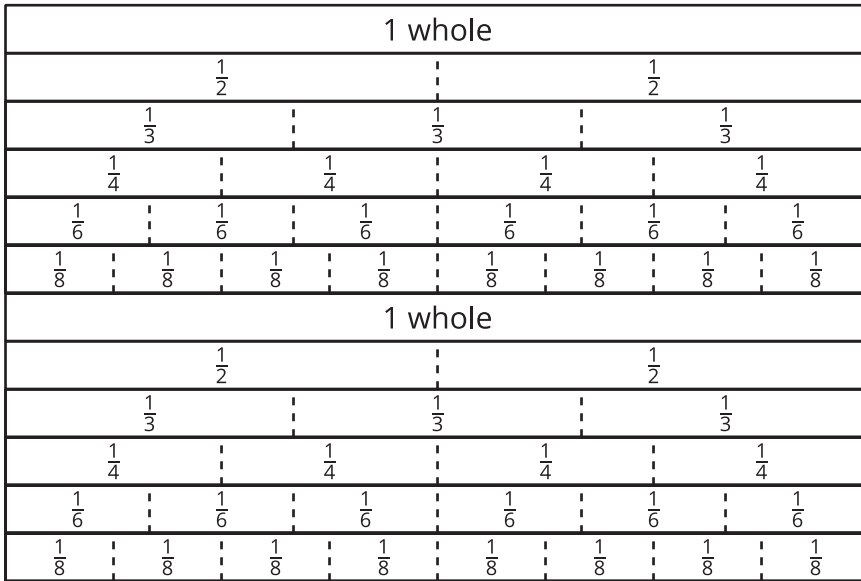
1 Introduce Secret Fractions

Student Task Statement

The goal of the game is to be the first to build 2 secret fractions with unit fractions.

1. Make two stacks: one for secret fractions and one for unit fractions. Place all cards face down.
2. Each player draws 2 secret fraction cards. These are the fractions you are trying to make with your unit fractions.
3. On your turn, you can make one of these moves:
 - Pick up 1 unit fraction card.
 - Trade both of your secret fractions for 2 new secret fractions from the stack.
4. When you have enough unit fractions to make one of your secret fractions, shade your gameboard to represent your secret fraction. Then, pick a new secret fraction.
5. The first player to make 2 secret fractions wins.

Gameboard



2 Represent Fraction Situations

Student Task Statement

Here are four situations about playing Pilolo and four diagrams. Each diagram represents the length of a street where the game is played.

Represent each situation on a diagram. Be prepared to explain your reasoning.

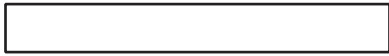


1. A student walks $\frac{4}{8}$ the length of the street and hides a rock.

2. A student walks $\frac{2}{3}$ the length of the street and hides a penny.

3. A student walks $\frac{3}{4}$ the length of the street and hides a stick.

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4. A student walks $\frac{5}{6}$ the length of the street and hides a penny.



5. This diagram represents the location of a hidden stick.



About what fraction of the length of the street did the student walk to hide it? Be prepared to explain how you know.