

Grade 4 Unit 3

Lesson 2

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Unit 3 Lesson 2: Representations of Equal Groups of Fractions**WU Number Talk: Three, Six, Nine, Twelve (Warm up)**

Student Task Statement

Find the value of each expression mentally.

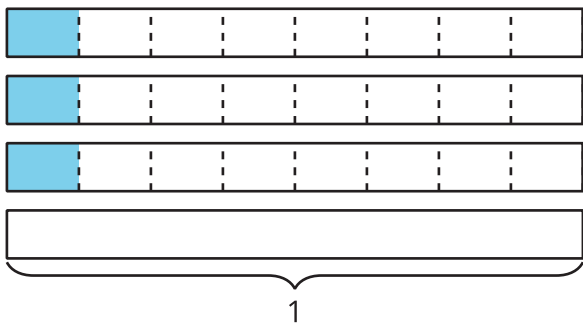
- 3×6
- 3×9
- 6×9
- 12×9

1 Card Sort: Expressions and Diagrams

Student Task Statement

Your teacher will give you a set of cards with expressions and diagrams.

1. Match each expression with a diagram that represents the same quantity.
2. Record each expression without a match.
3. Han started drawing a diagram to represent $7 \times \frac{1}{8}$ and did not finish. Complete his diagram. Be prepared to explain your reasoning.



4. Choose one expression that you recorded earlier that didn't have a match.

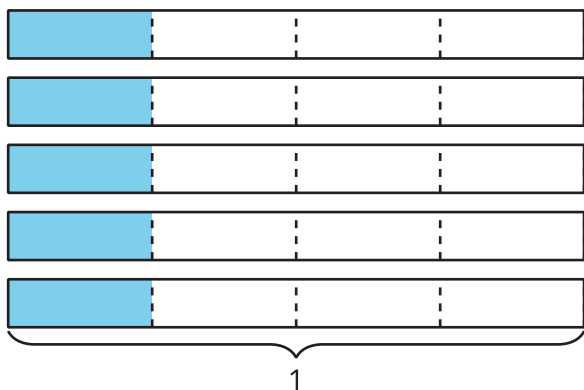
Draw a diagram that can be represented by the expression. What value do the shaded parts of your diagram represent?

2 Different Representations

Student Task Statement

1. a. Write a multiplication expression that represents the shaded parts of the diagram. Then, find the value of the expression.

Diagram:



Expression:

Value:

- b. Draw a diagram that the expression $6 \times \frac{1}{3}$ could represent. Then, find the value of the expression.

Diagram:

Expression: $6 \times \frac{1}{3}$

Value:

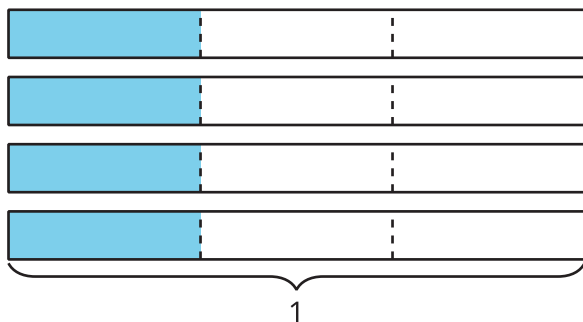
- c. Draw a diagram and write an expression that gives the value $\frac{7}{2}$.

Diagram:

Expression:

Value: $\frac{7}{2}$

2. To represent $4 \times \frac{1}{3}$, Diego drew this diagram:



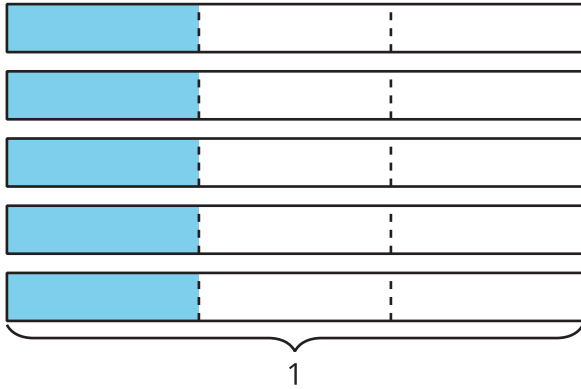
Elena drew this diagram:



Are they representing the same expression and value? Explain or show how you know.

Images for Activity Synthesis

A



B

