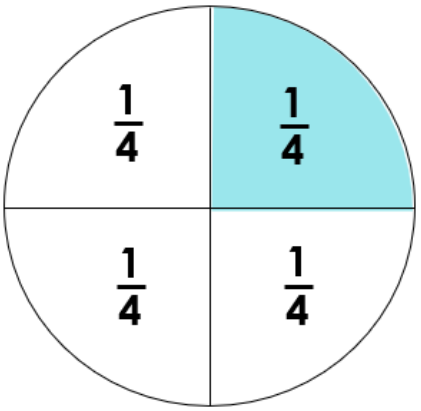
We will determine the unit fraction of a whole. | **Concept Development**

A **unit fraction** represents **one equal part** of a whole.

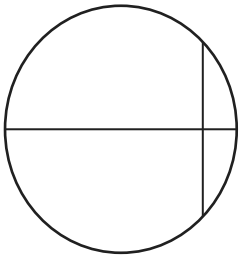
- The **numerator** is **always 1**.
- The **denominator** is the number of **total equal parts**.

$\frac{1}{4}$ is the **unit fraction**



$\frac{3}{4}$ is **NOT** the **unit fraction**

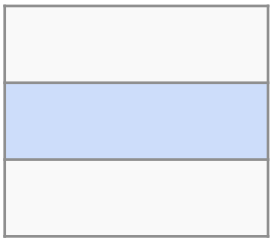
NOT Divided into **equal parts**

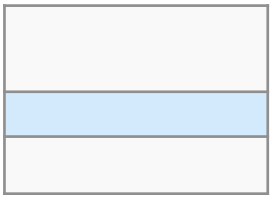


Each part is **NOT** $\frac{1}{4}$.

Check for Understanding

Which figure below shows a unit fraction? Explain.

A 

B 

Which is a unit fraction? Explain.

A $\frac{2}{3}$ B $\frac{1}{5}$

Which is the unit fraction of the figure? Explain.

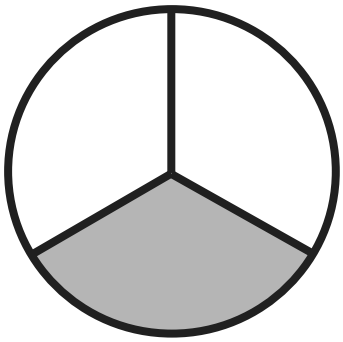
A $\frac{1}{6}$ B $\frac{1}{5}$

In your own words, what is a unit fraction?

1. Read the problem.
2. Determine the unit fraction. (Write)
3. Interpret the unit fraction. *"The unit fraction __ represents __ part of __ equal parts."*

1. What is the **unit fraction** of the circle?

_____

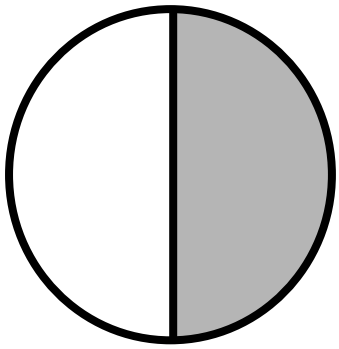


The **unit fraction** ____ represents

_____ part of _____ equal parts.

2. What is the unit fraction of the circle?

_____

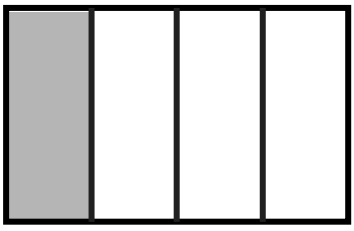


The **unit fraction** ____ represents

_____ part of _____ equal parts.

3. What is the unit fraction of this rectangle?

_____

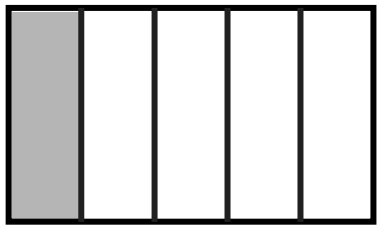


The **unit fraction** ____ represents

_____ part of _____ equal parts.

4. What is the unit fraction of this rectangle?

_____



The **unit fraction** ____ represents

_____ part of _____ equal parts.

1. Read the problem.
2. Determine the unit fraction. (Write)
3. Interpret the unit fraction. *"The unit fraction __ represents __ part of __ equal parts."*

5. How much of the pizza is one slice?

_____

The **unit fraction** ____ represents

_____ part of _____ equal parts.

6. How much of the pizza is one slice?

_____

The **unit fraction** ____ represents

_____ part of _____ equal parts.

3. How much of the paper is one piece?

_____

The **unit fraction** ____ represents

_____ part of _____ equal parts.

4. How much of the paper is one piece?

_____

The **unit fraction** ____ represents

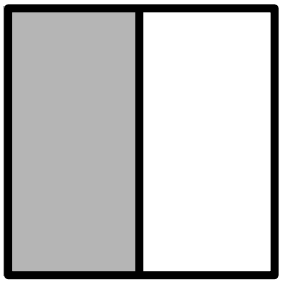
_____ part of _____ equal parts.

Skill Closure

1. Read the problem.
2. Determine the unit fraction. (Write)
3. Interpret the unit fraction. *"The unit fraction __ represents __ part of __ equal parts."*

1. What is the unit fraction of this square?

_____

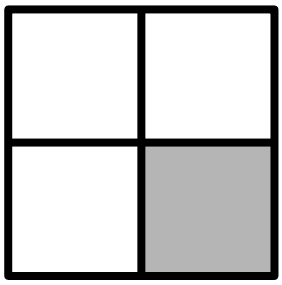


The **unit fraction** ____ represents

_____ part of _____ equal parts.

2. What is the unit fraction of this square?

_____



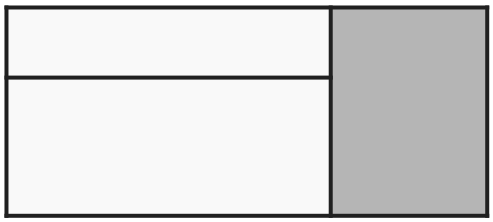
The **unit fraction** ____ represents

_____ part of _____ equal parts.

Concept Closure

Answer the following question.

Explain why the unit fraction $\frac{1}{3}$ does not represent each part of the rectangle on the left.



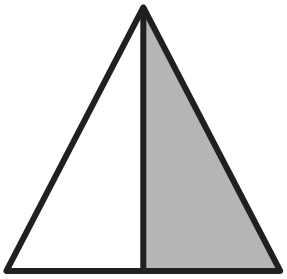
Summary Closure

What did you learn today about determining unit fractions of a whole?

Word Bank
unit fraction
equal parts
whole
numerator
denominator

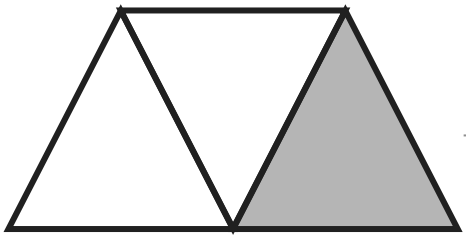
Determine unit fractions of each object.

1. What is the **unit fraction** of this shape?



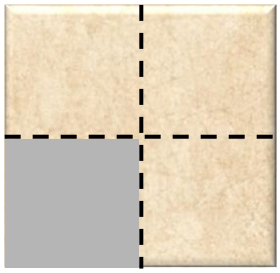
_____

2. What is the **unit fraction** of this shape?



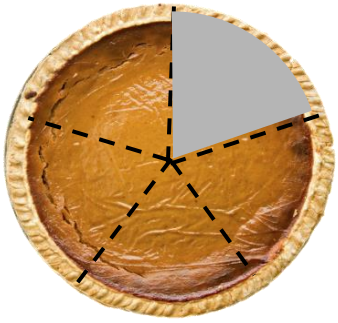
_____

3. What is the **unit fraction** of this shape?



_____

4. What is the **unit fraction** of this shape?



_____

5. What is the **unit fraction** of this shape?

_____

6. What is the **unit fraction** of this shape?

_____

Listening

1.

2.

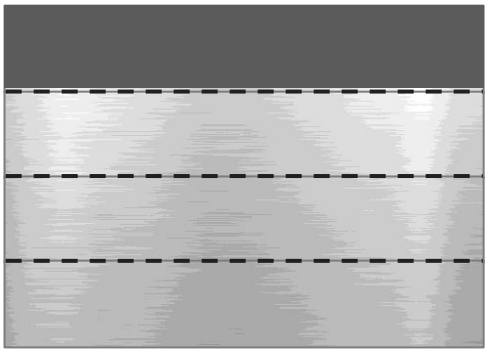
3.

4.

Determine unit fractions of a whole.

5. A sheet of metal has been cut into four equal pieces. How much of the sheet of metal is one piece?

One piece is ____ of the sheet of metal.

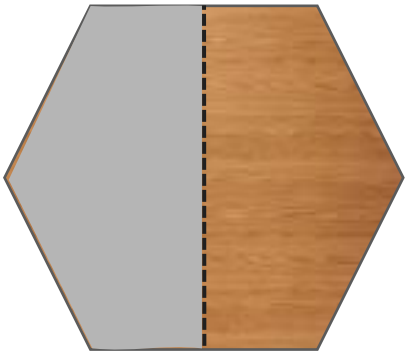


The unit fraction ___ represents

___ part of ___ equal parts.

6. A wooden desk is divided into two equal parts. How much of the desk is one part?

One part is ____ of the desk.

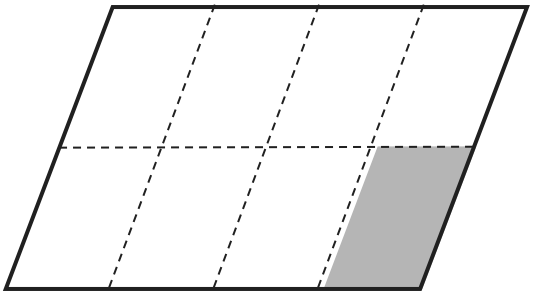


The unit fraction ___ represents

___ part of ___ equal parts.

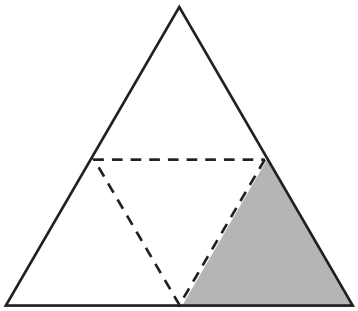
Reading

1. A shape is divided into equal parts.
What is the unit fraction of the shape?



The unit fraction is ____.

2. A triangle has been divided into equal parts. What is the unit fraction of the triangle?



The unit fraction is ____.

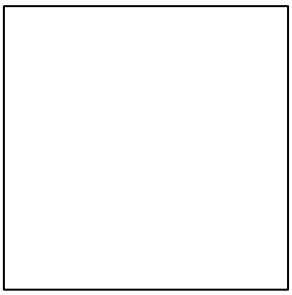
3. Divide the pizza so that each piece represents a unit fraction of $\frac{1}{4}$.

Explain why each piece represents $\frac{1}{4}$.

Reading

4. Divide the square so that each piece represents a unit fraction of $\frac{1}{3}$.

Explain why each piece represents $\frac{1}{3}$.



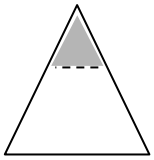
5. Tim, Hector, Julie, and Lenny are trying to divide a square into equal parts to play four-square at recess.

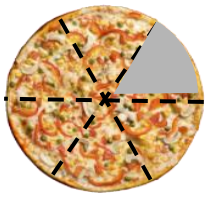
What would be the unit fraction of each player's part of the square?

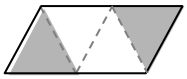
6. Carol is dividing a pie into equal parts for her children to eat.
If Carol has eight children, what would be the unit fraction of each slice of pie?

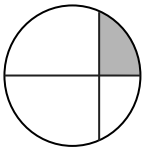
Writing

Can the figure be represented as a unit fraction? Select yes or no.

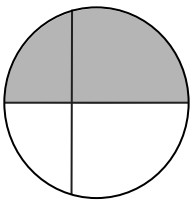
1.  ○ Yes ○ No

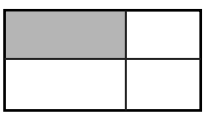
2.  ○ Yes ○ No

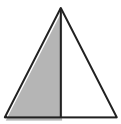
3.  ○ Yes ○ No

4.  ○ Yes ○ No

5.  ○ Yes ○ No

6.  ○ Yes ○ No

7.  ○ Yes ○ No

8.  ○ Yes ○ No