

## Lesson Worksheet

In this worksheet, you are going to create your own fractions.

Let's play a dice game. In this game, you will learn different ways to represent a fraction that you obtain from a dice. Each student should have fraction circle, fraction bar and grids. You can use them to represent fractions.

### Example 1 (Using fraction circle)

Throw a dice twice.

You obtain the two numbers \_\_\_ and \_\_\_. It represents the fraction  $\frac{\square}{\square}$ .

Shade the region in a suitable fraction circle that represents the fraction  $\frac{\square}{\square}$ .

Cut it out and stick it in the space provided below. Mark down the fraction ' $\frac{\square}{\square}$ ' next to the shaded fraction circle.

Outline the circle and mark down the words 'a whole'.

The fraction is  $\frac{\square}{\square}$ .

The fraction circle is  a part / a whole .

How many equal sectors are there in the fraction circle? \_\_\_\_\_

Each sector represents  $\frac{\square}{\square}$ . It is a unit fraction. We read it as \_\_\_\_\_.

## Example 2 (Using fraction bar)

Throw a dice twice.

You obtain the two numbers \_\_\_\_ and \_\_\_\_ . It represents the fraction  $\frac{\square}{\square}$  .

Shade the region in a suitable fraction bar that represents the fraction  $\frac{\square}{\square}$  .

Cut it out and stick it in the space provided below. Mark down the fraction ' $\frac{\square}{\square}$ ' next to the shaded fraction bar.

Outline the fraction bar and mark down the words 'a whole'.

The fraction is  $\frac{\square}{\square}$  .

The fraction bar is  a part / a whole  .

How many equal bars are there in the fraction bar? \_\_\_\_\_

Each bar represents  $\frac{\square}{\square}$  . It is a unit fraction. We read it as \_\_\_\_\_ .

### Example 3 (Using grids)

Throw a dice twice.

You obtain the two numbers \_\_\_\_ and \_\_\_\_\_. It represents the fraction  $\frac{\square}{\square}$ .

Outline a rectangle with \_\_\_\_\_ squares. Mark down the words 'a whole' next to the rectangle.

Shade \_\_\_\_\_ squares of the rectangle. Mark down the fraction  $\frac{\square}{\square}$ .



The fraction is  $\frac{\square}{\square}$ .

The rectangle is  a part / a whole .

How many equal squares are there in the rectangle? \_\_\_\_\_

Each square represents  $\frac{\square}{\square}$ . It is a unit fraction. We read it as \_\_\_\_\_.

## Try it out!

Instructions:

1. Throw a dice twice.
2. Write down the fraction that you obtain from the dice.
3. Choose fraction circle, fraction bar or grids to represent the fraction. Stick the representation in the space provided. You can use more than one representation.

**Question 1 (I use \_\_\_\_\_.)**

The fraction is  $\frac{\square}{\square}$ .

**Question 2 (I use \_\_\_\_\_.)**

The fraction is  $\frac{\square}{\square}$ .

**Question 3 (I use \_\_\_\_\_.)**

The fraction is  $\frac{\square}{\square}$ .

**Question 4 (I use \_\_\_\_\_.)**

The fraction is  $\frac{\square}{\square}$ .

Which one do you prefer to represent fractions? Fraction circle, fraction bar or grids? \_\_\_\_\_

## Extension

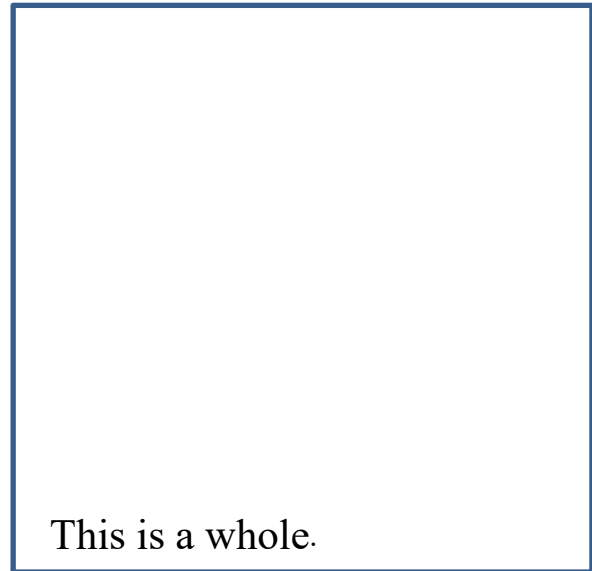
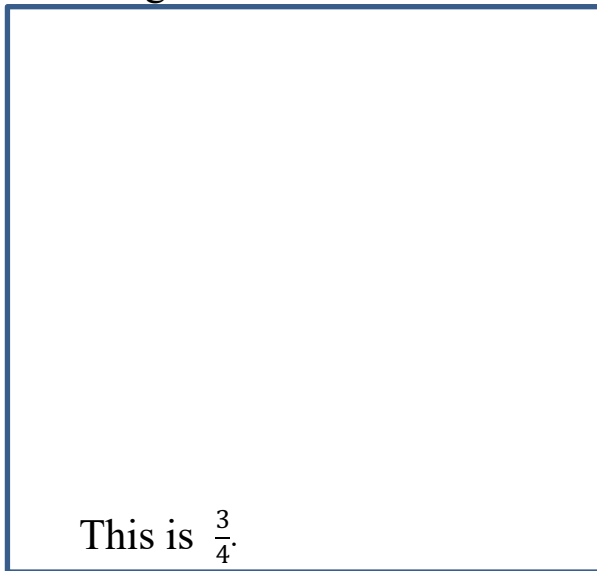
You can also fold a square paper to obtain a fraction.

### Example (Using square paper)

Suppose we want to obtain the fraction  $\frac{3}{4}$ .

Instructions

1. Fold a square paper into 4 **equal parts** and then cut them out.
2. Mark down the fraction  $\frac{1}{4}$  on each part.
3. Stick 3 parts in box on the left below and stick a square paper in the box on the right below.



The square paper is  a part / a whole .

Each part represents  $\frac{\square}{\square}$ . It is a unit fraction. We read it as \_\_\_\_\_.