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 <u>a part / a whole</u>.

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.

This is $\frac{3}{4}$.

This is a whole.

The square paper is a part / a whole.

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