

GUIDE FOR THE TEACHER

This book describes the fractions unit for 6th graders. It includes videos, worksheets, activities, and games on the topics. I will give you tips on how to process all chapters in order.

1-Comparing, ordering, and displaying fractions on the number line.

In this section, there are 2 educational videos and 2 activities, respectively. When you have your students watch the first video, they will learn how to sort fractions according to their closeness to half and whole. When they watch the second video, they will get an idea of how to display the fractions on the number line. After these videos, you can answer the questions that arise in the minds of the students. Then you can move on to activities to reinforce the topics.

1-You can explore fractions on the number line!

In the activity, you and the students can predict where the fractions will be on the number line. You can ask where the given fraction will be on the number line, or you can hide the fraction and mark a point on the number line and ask which fraction that point represents.

2-Guess! Which is larger?

In the activity, you can ask them to guess which of the two fractions is greater. In this activity, you also have the chance to stack the fraction models and see which fraction has the larger area.

2-Performing addition and subtraction with fractions.

This section includes 1 video, 2 activities and 1 worksheet. When students watch the video, they will get an idea of how to add and subtract fractions. Then you can move on to activities.

1-Add it, Check it!

You can change the denominator of the given fractions in this activity by sliding the slider. The share part can be changed by pressing the random buttons. Here you will have the chance to see the circular model of the formed fractions. In this game, which asks you to add the two fractions formed, students can write their answers in the input box. Then they can check whether their answers are correct or wrong by pressing the check button. Students can also play it individually. In the classroom, you can open it from the board and play it to the students in order.

2-Subtracting Fractions

In this activity, students can learn subtraction in fractions in a conceptual way through modeling. The rules of the event are given above the event. But I am also adding it here.

There are 3 simple steps to subtract fractions

Step 1. Make sure the bottom numbers (the denominators) are the same

Step 2. Subtract the top numbers (the numerators). Put the answer over the same denominator.

Step 3. Simplify the fraction (if needed).

3-Worksheet

The worksheet I attached is an online worksheet. Students have the chance to write and check their answers in the boxes next to the questions on this paper.

3-Performing the multiplication of a natural number and a fraction and makes sense.

There are 2 videos and 1 worksheet in this section. When you have your students watch the first video, they will learn how to multiply a natural number by a fraction in its simplest form. In the second video, they will learn how they can benefit from modeling in these multiplication processes. Finally, there is a worksheet. There is also an answer key in the PDF.

4-Performing the multiplication of two fractions.

This section includes 1 educational video and 1 activity. When students watch the video, they will learn how two fractions are multiplied, that is, the operation process. In the activity, you will have the opportunity to see the modeling of the product of two fractions.

5-Dividing a natural number into a fraction and a fraction into a natural number.

There are 2 educational videos and 1 activity in this section. Educational videos include dividing a natural number into a fraction and a fraction into a natural number. These are instructional videos for the student about the operational process of these processes. Then you can move on to the activity. The activity demonstrates dividing a whole number by a fraction by modeling.

6-Performing the division of two fractions.

This section includes 1 educational video and 1 activity. When students watch the video, they will learn how to divide two fractions together. It illustrates the method of invert and multiply the second fraction, called reciprocal. Then you can move on to the activity. The activity provides students with operational practice. Students can perform the operation given on the screen and check the result. But the best part is that the activity gives clues to the students!

7-Predicting the result of adding and subtracting fractions.

This section includes 1 educational video and 2 activities. When students watch the video, they will learn how to predict the results of adding and subtracting fractions. The video focuses on the concepts of closeness to half and whole. Then you can move on to activities. There are two activities. One is about predicting the results of subtraction in fractions, and the other is about predicting the results of adding in fractions. The nice thing about the activities is that when the student makes a wrong guess, it explains the correct answer.

8- Solving real life problems.

There are only 4 educational videos in this section. These videos explain with examples how to solve problems related to multiplication, division, addition, and subtraction in fractions.