



Simply Great Math Activities: Fractions, Decimals and Percents

A dozen incredible and innovative activities will captivate and educate your students. They will learn creative and clever tricks that make fractions less frightening. The book includes homework and transparency masters, journal topics, easy-to-follow directions, and much more.

Your students will find new and conceptual ways to:

- add, subtract, multiply and divide fractions
- simplify fractions
- convert fractions, decimals and percents to equivalent forms
- compare and order fractions, decimals and percents
- apply fractions, decimals and percents to real life

The useful information in this book includes:

- extremely simple instructions for teaching with the activities
- 12 enjoyable and effective math activities
- 26 journal prompts
- over 50 activity and transparency masters
- 14 suggested homework assignments
- 16 extension suggestions

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This tactile activity helps students see and feel equivalent and simplified fractions. The thinking involved in the manipulation of this activity will foster	

crucial fraction sense too. The activity can easily be extended into the abstract, and algebra can be incorporated.

2 Fraction Number Line.....	14
If you want to build number sense with fractions, if you want to help students see the connections between fractions, decimals, and percents –if you want to generate rich mathematical discussion – then this quick and easy activity is for you. Use it as a planned activity, a warmup, or a quick filler.	
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Here is another creative and visual tool for exploring fraction concepts such as simplifying and equivalency. This activity also provides a visual model of equal fraction ratios.	
4 Fraction Comparisons	24
This activity allows students to see the relationships between fractions, decimals, and percents. It accomplishes this by using a visual model and fractions of halves, fourths and eighths. These denominators are more understandable to beginning students. This eases them into the lesson. Then they progress to thirds and sixths later.	
5 Venn Diagram	32
This is a great activity for showing the relationships among fractions, decimals, and percents. Data and statistics are integrated as students display the results of a survey about their personal interests, thus engaging them in the activity. The project also incorporates measurement, geometry, and art.	
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Research shows that teaching the multiple representations of fractions concurrently aids students in conceptual understanding and helps them navigate more easily among the three representations: common fractions, decimals, and percents. This activity helps students see this through a visual area model.	
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Here is a creative and unique tool for exploring fraction concepts. It can be used to illustrate that fractions can be used to express ratios, number relationships, and slope.	
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This is a powerful model for teaching addition and subtraction of common and mixed fractions. Students will also practice measurement as they learn to use a ruler. The activity can be used to lead directly into a traditional algorithm for addition and subtraction of fractions.	

9 Fraction Arrays 74

It's tough to find a model for something so confusing to students as multiplying mixed numbers, but here is one that not only powerfully illustrates the process, it also is easy for students to do!

10 Dividing Fractions..... 82

"Ours is not to reason why, just invert and multiply." Tired of trying to help students understand and remember the standard algorithm for dividing fractions? Here is a new one. This method helps children understand the process and is similar to the way we add and subtract fractions by finding a common denominator.

11 Fraction Division Shortcut 86

Still not having success teaching children the rhyme and reason of fraction division? Here is a simple, quick, and easy method that many students find more palatable. This model is not only easy to learn, it models the cross multiplication used in solving ratios and avoids the need to invert and multiply.

12 Domino Fractions 90

This exploration builds number sense in the areas of fractions and the operations while giving students an opportunity to practice computation with fractions. It works excellently as an assignment embedding practice in a conceptually rich exploration of mathematics.

Appendix:

Fraction, Decimal, & Percent Cards 98

Grid and Dot Paper Masters 116