**The super duper nerd herd!**

Learn fun easy math with all your super hero friends

GO MATH!!!!!



Written and Produced by: Mackenzie Day & Alexis Stanley

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ALL ABOUT FRACTIONS!

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Table of Contents

* Section 1
* Introducing fractions page 3
* How to add and subtract fractions page 5-6
* Practice adding & subtracting problems page 7
* Section 2
* How to multiply & divide fractions page 8-9
* Practice Multiplying page 10
* Practice dividing page 11
* Section 3
* Practice the Problems in Sections 1-4 page 12-13
* Answers page 14

Section 1

Introduction to fractions

What are Fractions?

Fractions are a part of a whole. They represent what a part is out of 100. Fractions can show how to divide things up equally between two objects or show parts of the object. Fractions are shown as a number over another number. For example: which is half of an object. Fractions can be added, subtracted, multiplied, divided, reduced, and shown as mixed numbers, improper fractions and reciprocals. Mixed numbers are fractions that are turned into a whole with a fraction. Ex. = 1 . Improper fractions are fractions that the numerator is bigger than the denominator. Ex. or

You can also find common denominators for two different fractions. Fractions are a small part of something. In this section you will be doing practice problems with your super-duper nerd friends! You will experience adding, subtracting, multiplying and dividing. But with your super-duper nerd herd friends it will be a piece of cake.

HAVE FUN!

How to add fractions

To add a fraction you have to first add the two top numerators (numerators are the top number on a fraction ex. . The yellow highlighted number is the numerator and the pink highlighted number is the denominator.)Make sure you have common denominators. So here’s an example of what you will be doing.

Ex. + = (simplified 1) or + =

But if you don’t have common denominators you should find common denominators. Ex. + = , but 3×7=21 therefore your denominator is 21 because it’s the LCM.

How to Subtract Fractions

First of all, make sure your denominators are both the same. Then subtract the two numerators. Then simplify your answer. To simplify you must find the highest number that can be divided into the numerator and denominator equally.

Ex. - Or - = ÷ =



Practice adding & subtracting

(Always reduce your answers)

**1.)** Solve: + =

2.) Solve: + = (note: when subtracting make

3.) Solve: + = sure your final answer is in

4.) Solve: + = reduced form.)

5.) Solve: + =

6.) Solve: - =

7.) Solve: -=

8.) Solve: - =

9.) Solve: - =

10.) Solve: -

**Section two**

**How to multiply fractions**

To multiply fractions you have to multiply both of the numerators together. Then you have to multiply the denominators together, and simplify if needed.

Ex. × = or × = (answers are reduced.)

**How to Divide Fractions**

To divide fractions you must first take the second fraction in the problem and make it a reciprocal. To make a reciprocal, you have to switch the numerator and the denominator around, so the denominator becomes the numerator and the numerator becomes the numerator. Ex. Will become ! That is a reciprocal. So,

If you divide ÷ , the equation will be ÷ .

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Practice multiply and dividing

1. If little Suzie has of an apple, how much of an apple will Suzie have if she multiplies of her apple by?
2. Stacy’s mom is having a party. She fills the goody bags full, and 24 people are attending. If one candy bag fills 3 goody bags half way how many bags of candy should she buy?
3. Duct tape is 6 feet long. How many 1 in pieces can the tape be cut into?
4. Find of 24.
5. Of a class of 28 are wearing pink t-shirts. How many students are wearing pink t-shirts?
6. Needs cup of flour for the cake recipe. How many cups of flour will she need for 7 cakes?
7. On Friday night Alexis and Mackenzie had Pizza for dinner. They had of the pizza left over. On Saturday night they ate of what was left. How much pizza was left for Sunday?
8. A new Maserati covers 50 miles in 1/5 hours. How many miles can the new Maserati cover in 5 hours?
9. A pickle is 8 inches long. How many pieces of pickle can be cut from the 8-inch piece of if each piece is to be two-thirds of an inch?
10. Octavia made 1/2 of a quart of tea. Each mug holds 1/4 of a quart. How many mugs will Octavia be able to fill?

***Section 3***

1. If little Suzie has of an apple, how much of an apple will Suzie have if she multiplies of her apple by?
2. Stacy’s mom is having a party. She fills the goody bags full, and 24 people are attending. If one candy bag fills 3 goody bags half way how many bags of candy should she buy?
3. Duct tape is 6 feet long. How many 1 in pieces can the tape be cut into?
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**1.)** Solve: + =

2.) Solve: + = (note: when subtracting make

3.) Solve: + = sure your final answer is in

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5.) Solve: + =

6.) Solve: - =

7.) Solve: -=

8.) Solve: - =

9.) Solve: - =

10.) Solve: -

1. If Rowel wants to make wood pieces out of wood that are inches long and the wood is 7 inches, how many pieces will Rowel make? Show and Explain.

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|  |

B. If Rowel want to give 4 of the pieces to his friend Shirley, How many pieces does Rowel have left? Show and Explain.

|  |
| --- |
|  |

Answer sheet. Section 1

1. 3. 5.

7. 9.

Answer sheet section 2

1 .

3. 48

5. 4

7.

9. 5

Open ended question answer

14 pieces

Part B. 10 pieces.