

Student Name: _____

Class: _____

Due Date: _____

Introduction

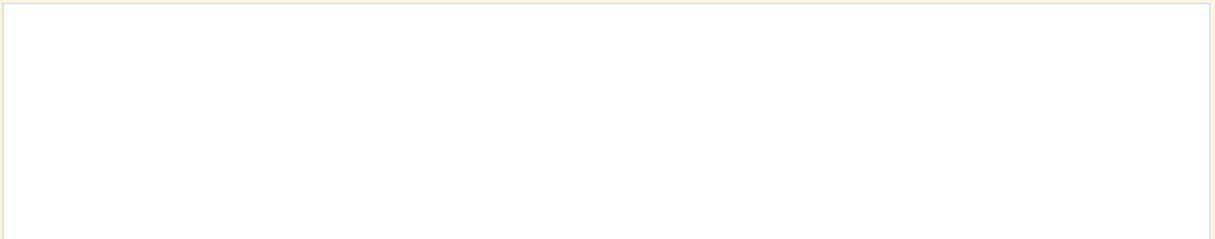
Welcome to the Fractional Motion homework sheet! This activity is designed to help you learn about fractions and decimals, and how they relate to the three laws of motion. You will have the opportunity to practice your problem-solving skills and apply mathematical concepts to real-life scenarios.

Essential Understanding:

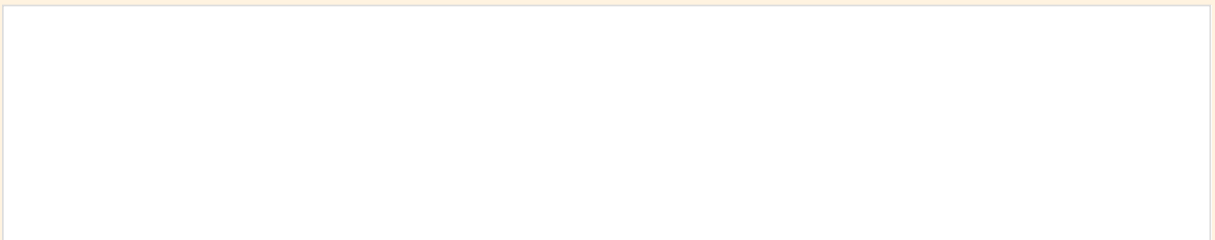
- Fractions and decimals are used to represent part-whole relationships
- Fractions can be simplified by dividing the numerator and denominator by their greatest common divisor
- Decimals can be converted to fractions by writing the decimal as a fraction with a denominator of 10

Exercise 1: Identifying Fractions

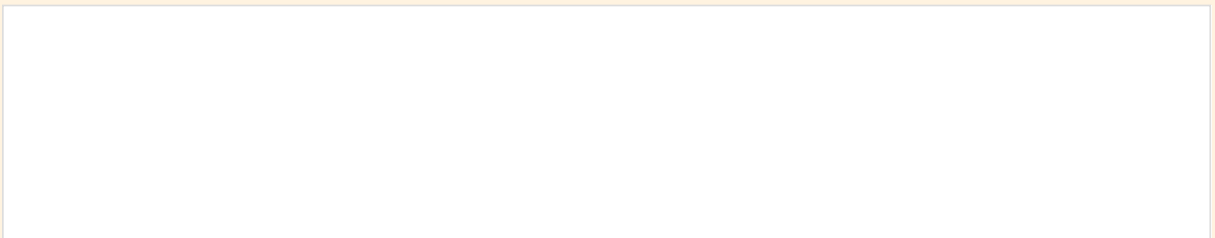
1. Identify the fraction in the following picture: _____



2. Identify the fraction in the following picture: _____




3. Identify the fraction in the following picture: _____



Exercise 3: Diagram Labeling

Label the following diagram with the correct terms related to Newton's laws of motion:

 Newton's Laws Diagram

1. _____

2. _____

3. _____

Exercise 4: Applying Fractions and Decimals to Motion

1. If a car travels $\frac{3}{4}$ of a mile in 2 minutes, how many miles does it travel in 5 minutes? _____

2. A ball is rolling at a speed of 2.5 meters per second. If it travels for $\frac{3}{4}$ of a minute, how far does it travel? _____

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3. A bicycle is traveling at a speed of 15 kilometers per hour. If it travels for $\frac{2}{3}$ of an hour, how far does it travel? _____

Exercise 5: Word Problems

1. Tom has $\frac{3}{4}$ of a bag of apples. If he gives $\frac{1}{4}$ of the bag to his friend, what fraction of the bag does he have left? _____

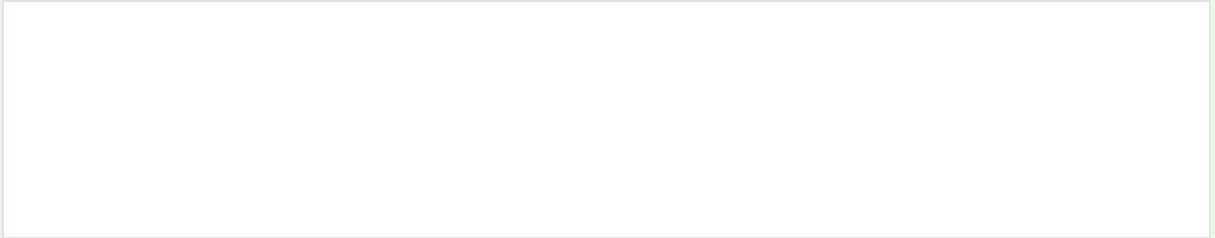
2. A car is traveling at a speed of 60 kilometers per hour. If it travels for $\frac{2}{3}$ of an hour, how far does it travel? _____

3. A bicycle is traveling at a speed of 20 kilometers per hour. If it travels for $\frac{3}{4}$ of an hour, how far does it travel? _____

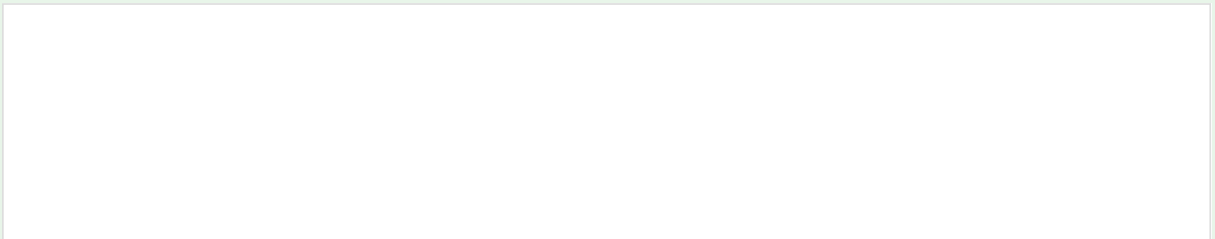
Section 4: Reflection and Fun Activity

Reflection

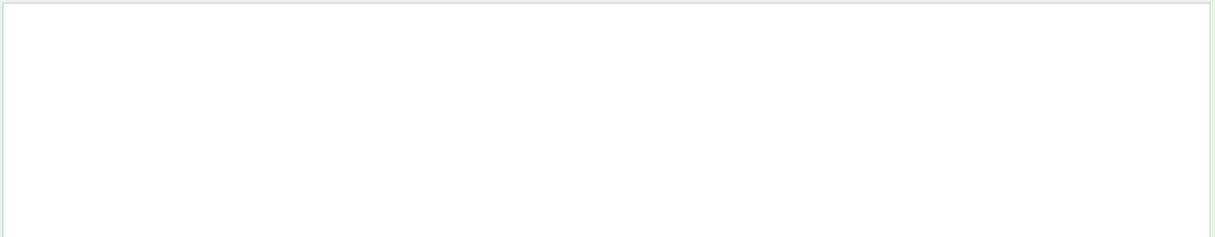
1. What did you learn about fractions and decimals? _____



2. How do you think the three laws of motion relate to real-life scenarios? _____

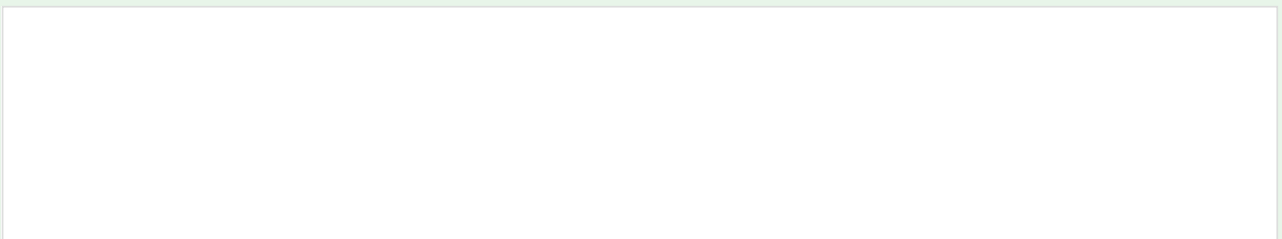


3. What challenges did you face, and how did you overcome them? _____



Fun Activity

Create a short drawing or diagram that illustrates one of the laws of motion using fractions and decimals. Be creative and have fun!



Note for Parents or Guardians

To support your child without doing the work for them:

- Encourage your child to read the instructions carefully and ask questions if they need clarification
- Provide a quiet and comfortable workspace for your child to complete the assignment
- Offer guidance on how to break down complex problems into simpler steps
- Praise your child's efforts and progress, even if they struggle with certain tasks

Answer Key

[Insert answer key]