

Overview of Class #12

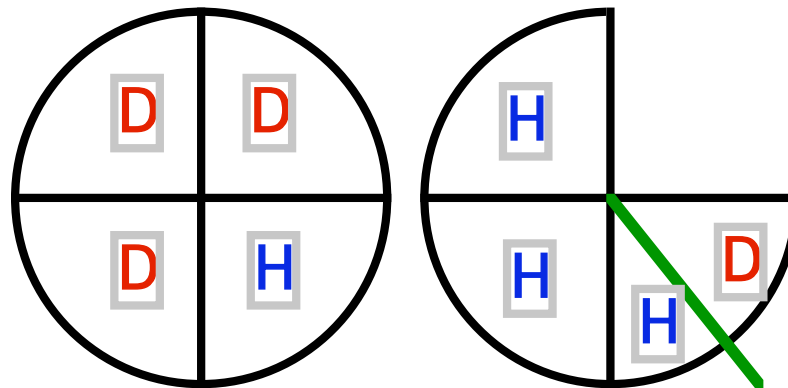
- Division with fractions
- Return to representations of $\frac{3}{4}$
- Tie up loose ends
- Wrap up

Division of Fractions

$$1 \frac{3}{4} \div \frac{1}{2}$$

1. Calculate the answer.
2. Write a story problem, or describe a situation, that corresponds to $1 \frac{3}{4} \div \frac{1}{2}$.

I have two pizzas. My friend eats one quarter of one of the pizzas. I have one and three quarters pizzas left. Then I split it evenly between two of my other friends. Each person gets three and a half pieces of pizza.



1. What is wrong with this?
2. Write a story problem that correctly represents the division.

Review: Interpretations of Division

Partitive:

- $a \div b$ means a divided into b equal groups
- $6 \div 3$ asks, "6 is 3 groups of what number?"

Measurement:

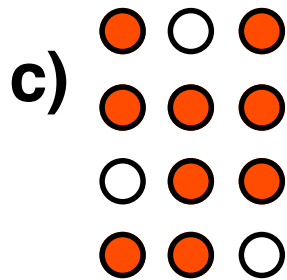
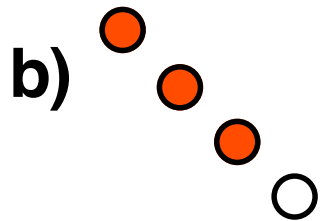
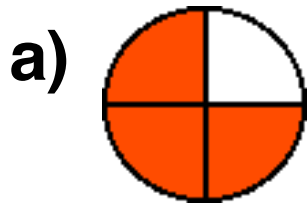
- $a \div b$ means a divided into groups of b
- $6 \div 3$ asks, "How many 3's are in 6?"

Dividing Other Fractions

$$2 \div \frac{2}{3}$$

$$2\frac{1}{2} \div \frac{3}{4}$$

1. Write a story problem that goes with the division problem.
2. Make a picture for the interpretation of division you used.
3. Write both a multiplication and division equation for your picture.
4. Then try to write a problem using the other interpretation of division.

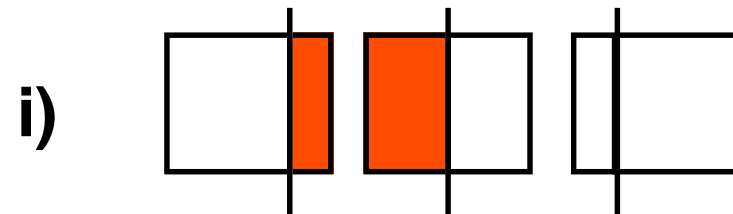
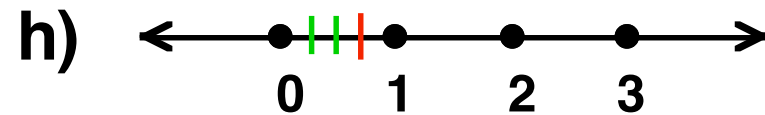


d) How many 4's are there in 3?

e) 18 crayons out of a box of 24

f) .75

g) I want to share 3 bottles of soda equally among 4 people. How much will each person get?



Representing Rational Numbers

- Fractions, decimals, percents
- Use determines which is a helpful or appropriate representation
- Consider:
 - Ordering numbers
 - Knowing whether a number is rational
 - Calculating
 - Representing meaningfully answers to particular problems

Final Exam

- In-class exam tomorrow
- Study Hall
 - Wednesday (today) at lunch
- Turn in notebooks tomorrow with final