

5.NF.3: Interpret a fraction as division of N by D, solve word problems by using models OR equations, convert improper fractions to mixed numbers.

Convert:

1. $\frac{38}{4} =$

2. $\frac{67}{7} =$

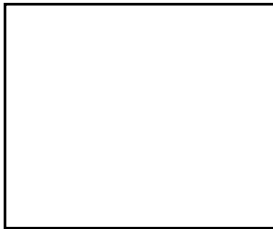
3. $\frac{16}{3} =$

4. $\frac{46}{9} =$

5. If four people wanted to equally share a box of 13 Snickers bars, how many would each person get? **SHOW YOUR WORK!**

5.NF.4a: Use diagrams to model fractions multiplied by whole numbers, fractions by fractions, tell a story

6. Draw an area model to show $\frac{1}{3} \cdot \frac{5}{6}$ and then solve.



7. Tell a story about my apple orchard using this equation $\frac{2}{7} \cdot 3$ and then solve (hint: use a box to show how many whole acres).

5.NF.5a: Predict if the product will be greater or less than factor WITHOUT solving.

5.NF.5b: Explain why multiplying a number by another number greater than one gives an answer greater than what you started with. Explain why multiplying a number by another number less than one gives an answer less than what you started with.

1st: Predict if the sum or product will be greater than (>) or less than (<) the first factor.

2nd: Explain why the answer is greater than or less than the first factor.

8. $\frac{2}{3} \cdot \frac{1}{3} = x$ x \bigcirc $\frac{2}{3}$ $x =$ _____

Why? _____

9. $\frac{5}{6} + \frac{2}{5} = x$ x \bigcirc $\frac{5}{6}$ $x =$ _____

Why? _____

5.NF.6: Solve word problems involving multiplication of fractions using models OR equations.

10. After a party, we had $1\frac{7}{8}$ pizzas left. The next day, we ate $\frac{4}{5}$ of the pizza for lunch. How much of the pizza did we eat?

11. Elijah makes pancakes at the diner. $\frac{15}{21}$ of his pancakes are blueberry. Of those blueberry pancakes, $\frac{2}{5}$ also have chocolate chips. What fraction of his pancakes have blueberries and chocolate chips?

5.NF.1: Add and subtract fractions with unlike denominators.

5.NF.4a: Use diagrams to model fractions multiplied by whole numbers, fractions by fractions, tell a story.

12. Complete the following fraction box:

$\frac{1}{2}$ and $\frac{7}{9}$	
> 5.NF.1	
+ 5.NF.1	
- 5.NF.1	
X 5.NF.4a	

5.NF.7c: Solve word problems involving division of fractions using models AND equations.

13. Joy is cutting boards into fourths. She has 9 boards. How many fourths will she have?

14. A pencil box has an area of 10 square inches and a width of $\frac{7}{8}$ inches. What is its length?

Draw the pencil box and label what you know. Include an equation to show your work.

15. I bought $\frac{9}{10}$ pounds of dog food. I divided it into three bags. One for Fido, Fetch, and Freddy. How much did each dog get?

5.NF.4b: Find the area of rectangle with fractional lengths.

16. A table has a length of $\frac{6}{7}$ feet and a width of $\frac{5}{8}$ feet. What is its area?

17. Trevor built a desk for his computer. Its top measures $3\frac{2}{7}$ feet by $1\frac{1}{3}$ feet. What is the area of the top of the desk?

5.NF.7a: Divide a fraction by a whole number. **5.NF.7b:** Divide a whole number by a fraction. Prove with multiplication.

Solve (prove with multiplication):

18. $\frac{1}{9} \div 3 =$

22. $12 \div \frac{1}{4} =$

19. $\frac{1}{4} \div 7 =$

23. $5 \div 12 =$

20. $\frac{1}{12} \div 6 =$

24. How many $\frac{1}{3}$ s are in 7 wholes? Write division and multiplication to show.

21. $7 \div \frac{1}{5} =$