

**Name:**

**5.NF.1**

Directions: Solve each problem.

$$\frac{3}{4} + \frac{2}{5} =$$

$$\frac{7}{9} - \frac{1}{2} =$$

$$1\frac{2}{3} + 2\frac{5}{6} =$$

$$3\frac{4}{9} - 1\frac{1}{3} =$$

$$2\frac{6}{7} + 2\frac{1}{2} =$$

Name: \_\_\_\_\_

# Adding & Subtracting Fractions

CCSS: 5.NF.1

I can add and subtract fractions with unlike denominators.

Find each sum or difference.

1 )  $\frac{3}{4} + \frac{2}{5} =$

2 )  $\frac{1}{2} - \frac{1}{5} =$

3 )  $\frac{1}{2} + \frac{4}{5} =$

4 )  $\frac{2}{3} - \frac{1}{4} =$

5 )  $\frac{2}{3} + \frac{4}{7} =$

6 )  $\frac{6}{7} - \frac{1}{6} =$

7 )  $\frac{2}{5} + \frac{1}{3} =$

8 )  $\frac{4}{8} - \frac{2}{9} =$

Name: \_\_\_\_\_

# Adding & Subtracting Mixed Numbers

CCSS: 5.NF.1

I can add and subtract fractions with unlike denominators (including mixed numbers).

Find each sum or difference.

$$1) \quad 2 \frac{1}{5} + 2 \frac{1}{2} =$$

$$2) \quad 3 \frac{1}{2} - 1 \frac{1}{2} =$$

$$3) \quad 3 \frac{1}{3} + 5 \frac{5}{6} =$$

$$4) \quad 5 \frac{2}{3} - 2 \frac{2}{5} =$$

$$5) \quad 5 \frac{3}{4} + 3 \frac{6}{9} =$$

$$6) \quad 3 \frac{8}{10} - 2 \frac{2}{3} =$$

$$7) \quad 3 \frac{2}{8} + 2 \frac{1}{6} =$$

$$8) \quad 5 \frac{5}{11} - 2 \frac{9}{12} =$$

**Name:**

**5.NF.2**

Directions: Solve each problem.

**On Saturday it snowed  $\frac{1}{4}$  of an inch, and on Sunday it snowed  $\frac{7}{8}$  of an inch. How much did it snow altogether?**

\_\_\_\_\_

**Zach's bean plant was  $7\frac{1}{5}$  inches tall, and his pepper plant was  $5\frac{2}{3}$  inches tall. How much taller was the bean plant than the pepper plant?**

\_\_\_\_\_

**Justin ate  $2\frac{2}{5}$  brownies, and Eric ate  $1\frac{1}{4}$  brownies. How many more brownies did Justin eat than Eric?**

\_\_\_\_\_

**Angie drank  $3\frac{1}{3}$  cups of water, and Cassie drank  $4\frac{5}{6}$  cups of water. How many cups of water did Angie and Cassie drink?**

\_\_\_\_\_

**Tori's cookie recipe called for  $1\frac{1}{3}$  cups of sugar and  $2\frac{1}{2}$  cups of flour. How much sugar and flour did Tori use altogether?**

\_\_\_\_\_

# Adding & Subtracting Fractions Word Problems

CCSS: 5.NF.2

I can solve word problems involving addition and subtraction of fractions.

Find each sum or difference.

- 1 ) On Monday, it rained  $1 \frac{3}{4}$  of an inch, and on Tuesday it rained  $2 \frac{2}{3}$  of an inch. How many inches did it rain altogether?
  
- 2 ) Jamie did homework for  $4 \frac{1}{5}$  hours last week, and Bob did homework for  $2 \frac{1}{4}$  hours last week. How much longer did Jamie spend doing homework than
  
- 3 ) Steve had  $3 \frac{5}{8}$  pizzas left after his birthday party. He sent  $1 \frac{1}{4}$  home with his friends. How much pizza does Steve have left to eat?
  
- 4 ) Mary walked  $\frac{5}{6}$  of a mile to school and then walked  $\frac{1}{4}$  of a mile to her friend's house. How many miles did she walk?

**Name:**

**5.NF.3**

Directions: Solve each problem.

$$\frac{27}{4} =$$

$$\frac{18}{5} =$$

$$\frac{46}{8} =$$

$$\frac{31}{2} =$$

If 3 people want to share 23 strawberries equally, how many strawberries should each person get? \_\_\_\_\_

Between what two whole numbers does your answer lie? \_\_\_\_\_

Name: \_\_\_\_\_

# Fractions as Division

CCSS: 5.NF.3

I can interpret a fraction as division of the numerator by the denominator.

Find each quotient.

1 )  $\frac{58}{8}$

2 )  $\frac{71}{4}$

3 )  $\frac{23}{2}$

4 )  $\frac{75}{9}$

5 )  $\frac{23}{4}$

6 )  $\frac{85}{4}$

7 )  $\frac{73}{9}$

8 )  $\frac{50}{2}$

9 )  $\frac{37}{6}$

10 )  $\frac{30}{3}$

11 )  $\frac{23}{6}$

12 )  $\frac{71}{5}$

13 )  $\frac{99}{3}$

14 )  $\frac{44}{4}$

15 )  $\frac{26}{8}$

# Fractions as Division Word Problems

CCSS: 5.NF.3

I can solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers.

Find each quotient.

- 1 ) Jenny has 82 pages left in her book. She needs to finish her book in 4 days. How many pages will she need to read per day?
  
  
  
  
  
  
  
  
  
  
- 2 ) Timothy has 68 pieces of paper and he wants to split into 5 piles. How many pieces of paper will be in each pile?
  
  
  
  
  
  
  
  
  
  
- 3 ) A farmer wanted to split 43 ears of corn among his 6 children. How many ears of corn will each child get?
  
  
  
  
  
  
  
  
  
  
- 4 ) Michelle's bucket of water weighs 99 ounces. If Michelle give the same amount to 8 pots of flowers, how many ounces of water will each pot receive?



**Name:**

**5.NF.4**

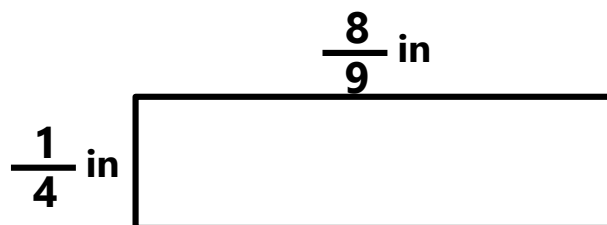
Directions: Solve each problem.

$$\frac{1}{6} \times \frac{3}{4} =$$

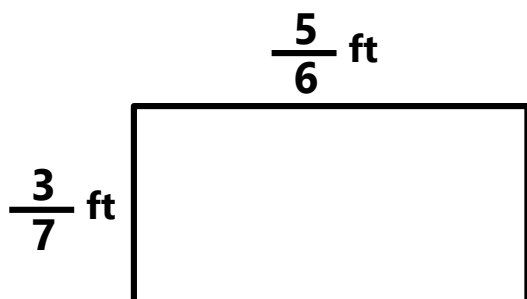
$$\frac{2}{5} \times \frac{3}{8} =$$

$$\frac{2}{7} \times 5 =$$

Find the area of the rectangle.



Find the area of the rectangle.



Name: \_\_\_\_\_

# Multiplying Fractions

CCSS: 5.NF.4

I can multiply a fraction by a fraction.

Multiply to find each product.

1 )  $\frac{2}{5} \times \frac{1}{5} =$

2 )  $\frac{1}{3} \times \frac{2}{4} =$

3 )  $\frac{1}{3} \times \frac{1}{4} =$

4 )  $\frac{1}{5} \times \frac{5}{7} =$

5 )  $\frac{1}{5} \times \frac{1}{2} =$

6 )  $\frac{3}{9} \times \frac{1}{7} =$

7 )  $\frac{3}{4} \times \frac{5}{8} =$

8 )  $\frac{7}{9} \times \frac{1}{9} =$

Name: \_\_\_\_\_

# Multiplying Fractions

CCSS: 5.NF.4

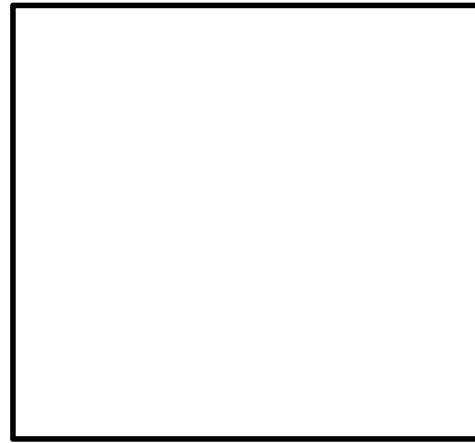
I can multiply a fraction by a fraction.

Shade the boxes to show how to visually multiply a fraction by a fraction.

1 )  $\frac{1}{2} \times \frac{4}{5} =$



2 )  $\frac{3}{4} \times \frac{2}{5} =$



3 )  $\frac{5}{6} \times \frac{6}{7} =$



4 )  $\frac{2}{5} \times \frac{1}{6} =$



Name: \_\_\_\_\_

# Multiplying a Fraction by a Whole Number

CCSS: 5.NF.4

I can multiply a fraction by a whole number.

Multiply to find each product.

1 )  $\frac{2}{3} \times 2 =$

2 )  $\frac{1}{3} \times 4 =$

3 )  $\frac{2}{3} \times 2 =$

4 )  $\frac{1}{5} \times 4 =$

5 )  $\frac{5}{9} \times 5 =$

6 )  $\frac{5}{8} \times 6 =$

7 )  $\frac{3}{8} \times 8 =$

8 )  $\frac{3}{6} \times 5 =$

Name: \_\_\_\_\_

# Multiplying Mixed Numbers

CCSS: 5.NF.4

I can multiply fractions.

Find each product.

$$1) \quad 1 \frac{1}{4} \times 2 \frac{1}{3} =$$

$$2) \quad 3 \frac{2}{5} \times 2 \frac{2}{4} =$$

$$3) \quad 2 \frac{3}{6} \times 5 \frac{1}{2} =$$

$$4) \quad 4 \frac{2}{7} \times 2 \frac{1}{2} =$$

$$5) \quad 3 \frac{1}{3} \times 5 \frac{1}{4} =$$

$$6) \quad 4 \frac{7}{10} \times 1 \frac{2}{3} =$$

$$7) \quad 2 \frac{3}{10} \times 4 \frac{6}{11} =$$

$$8) \quad 5 \frac{8}{9} \times 1 \frac{7}{12} =$$

**Name:**

**5.NF.5**

Directions: Solve each problem.

Without multiplying, choose which problem will have the greater product and explain.

A)  $\frac{3}{5} \times \frac{1}{4} =$

B)  $\frac{3}{5} \times \frac{1}{3} =$

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Without multiplying, choose which problem will have the greater product and explain.

A)  $\frac{6}{6} \times 4 =$

B)  $\frac{2}{1} \times 3 =$

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Will the product be more or less than  $2 \frac{1}{7}$ ?

$$2 \frac{1}{7} \times \frac{3}{4} =$$

---

Will the product be more or less than  $3 \frac{1}{2}$ ?

$$3 \frac{1}{2} \times 1 \frac{4}{9} =$$

---

Will the product be more or less than  $1 \frac{3}{5}$ ?

$$1 \frac{3}{5} \times \frac{2}{3} =$$

---

Name: \_\_\_\_\_

# Comparing Fraction Products

CCSS: 5.NF.5

I can compare products without multiplying

Without multiplying circle the letter that will have the greater product and explain.

A )  $\frac{1}{2} \times 7 =$

B )  $\frac{2}{4} \times 4 =$

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A )  $\frac{3}{5} \times 3 =$

B )  $\frac{6}{7} \times 6 =$

---

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A )  $\frac{1}{3} \times 4 =$

B )  $\frac{3}{4} \times 6 =$

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**Name:**

**5.NF.6**

Directions: Solve each problem.

**Andy bought  $\frac{4}{5}$  of a pound of pecans. He ate  $\frac{1}{3}$  of what he purchased. What fraction of a pound of pecans did Andy eat?**

\_\_\_\_\_

**Julie's class spent  $\frac{7}{8}$  of an hour in art class. They painted for  $\frac{2}{3}$  of the time. What fraction of an hour did the class paint?**

\_\_\_\_\_

**Holly's cupcake recipe calls for  $1\frac{1}{3}$  cups of sugar. Holly wants to make  $\frac{1}{2}$  a batch of cupcakes. How much sugar will Holly need to make cupcakes?**

\_\_\_\_\_

**Danny has 40 cookies. He gives away  $\frac{4}{5}$  of his cookies. How many cookies does he give away?**

\_\_\_\_\_

**Steven swam  $2\frac{1}{6}$  miles and Ryan swam  $\frac{3}{4}$  as far as Steven. How many miles did Ryan swim?**

\_\_\_\_\_



# Multiplying Fraction Word Problems

CCSS: 5.NF.6

I can solve real-world problems involving multiplication of fractions and mixed numbers.

Find each quotient.

- 1 )  $\frac{2}{3}$  of the bears at the zoo are brown.  $\frac{1}{2}$  of them are male. What fraction of the zoo's bears are brown males?
  
- 2 ) Todd walks  $2\frac{1}{4}$  miles home each day. He stops to rest  $\frac{1}{3}$  of the way home. How far has Todd walked when he stopped to rest?
  
- 3 ) Cindy's cupcake recipe calls for  $\frac{3}{4}$  cup of flour. Cindy wants to make  $\frac{2}{3}$  of a batch of cupcakes. How much flour will Cindy need to make the cupcakes?
  
- 4 ) A box of staples weighed  $2\frac{4}{5}$  ounces. If Mr. Thomas has  $3\frac{1}{2}$  boxes, how much would their combined weight be?

**Name:**

**5.NF.7**

Directions: Solve each problem.

$$7 \div \frac{1}{3} =$$

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$$\frac{1}{5} \div 6 =$$

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Monica has a ribbon that is 8 feet long. She wants to use all of the ribbon to make bows. She cuts the ribbon into pieces that are  $\frac{1}{4}$  of a foot. How many bows can she make?

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Garret had  $\frac{1}{2}$  of a pizza. He split the pizza into 5 equal pieces. What fraction of a pizza was each piece?

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Brad has 9 cups of cherries. He divided the cherries in  $\frac{1}{3}$  cup servings. How many servings does he have?

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Name: \_\_\_\_\_

# Dividing Fractions

CCSS: 5.NF.7

I can divide unit fractions by whole numbers and whole numbers by unit fractions.

Find each quotient.

1)  $\frac{1}{3} \div 4 =$

2)  $9 \div \frac{1}{4} =$

3)  $\frac{1}{7} \div 4 =$

4)  $2 \div \frac{1}{4} =$

5)  $\frac{1}{6} \div 7 =$

6)  $2 \div \frac{1}{2} =$

7)  $\frac{1}{6} \div 6 =$

8)  $6 \div \frac{1}{3} =$

Name: \_\_\_\_\_

# Dividing Fractions

CCSS: 5.NF.7

I can divide unit fractions by whole numbers and whole numbers by unit fractions.

Find each quotient.

1)  $\frac{2}{3} \div \frac{2}{3} =$

2)  $\frac{1}{2} \div \frac{3}{5} =$

3)  $\frac{5}{6} \div \frac{1}{3} =$

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

5)  $\frac{1}{9} \div \frac{1}{2} =$

6)  $\frac{2}{5} \div \frac{4}{6} =$

7)  $\frac{5}{6} \div \frac{1}{7} =$

8)  $\frac{1}{9} \div \frac{1}{3} =$

**Name:**

**NF Test**

**Number & Operations - Fractions Test**

**5.NF.1**

$$\frac{1}{4} + \frac{5}{6} =$$

**5.NF.1**

$$4\frac{1}{3} - 1\frac{5}{9} =$$

**5.NF.2**

Shannon drank  $\frac{1}{5}$  cup of milk and  $\frac{3}{4}$  cup of water. How much did she drink altogether?

\_\_\_\_\_

**5.NF.2**

Brad's potato plant was  $4\frac{1}{8}$  inches tall, and his bean plant was  $2\frac{1}{2}$  inches tall. How much taller was the potato plant than the bean plant?

\_\_\_\_\_

**5.NF.3**

$$\frac{29}{6} =$$

**5.NF.4**

$$\frac{2}{3} \times \frac{4}{5} =$$

**5.NF.3**

If 4 people want to share 22 cookies equally, how many should each person get?

\_\_\_\_\_

Between what two whole numbers does your answer lie?

\_\_\_\_\_

$$\frac{2}{5} \times 6 =$$

**Name:**

**NF Test**

**Number & Operations - Fractions Test**

**5.NF.4**

Find the area of the rectangle.

$$\frac{7}{10} \text{ ft}$$

$$\frac{2}{5} \text{ ft}$$



\_\_\_\_\_

**5.NF.5**

Without multiplying, choose which problem will have the greater product and explain.

A)  $\frac{3}{8} \times \frac{1}{2} =$

B)  $\frac{3}{8} \times \frac{1}{3} =$

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**5.NF.5**

Will the product be more or less than  $2 \frac{1}{3}$  ?

$$2 \frac{1}{3} \times 1 \frac{1}{2} =$$

\_\_\_\_\_

**5.NF.6**

Jill's pizza dough recipe calls for  $2 \frac{1}{4}$  cups of flour. Jill wants to make  $\frac{1}{2}$  a batch of pizza dough. How much flour will Jill need to make pizza dough?

\_\_\_\_\_

Matt's class spent  $\frac{5}{6}$  of an hour in science class. They dissected frogs for  $\frac{3}{4}$  of the time. What fraction of an hour did Matt's class dissect frogs?

\_\_\_\_\_

**5.NF.7**

$$8 \div \frac{1}{5} =$$

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

Tom had  $\frac{5}{9}$  of a pizza. He split the pizza into 3 equal pieces. What fraction of a pizza was each piece?

\_\_\_\_\_