

Math Activities

Grade 5, Week 8

Fraction Multiplication

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Day 1	Multiplying Fractions by Whole Numbers Part 1	2–3
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Day 5	Complete the Fraction Multiplication Sentence	10–11

Note: Some of this week's lessons require the use of hands-on tools or manipulatives. You can find them at:



Physical
Manipulatives



Printable
Manipulatives



Virtual Manipulatives
with Brainingcamp

The Answer Key for this week's lessons can be found at:



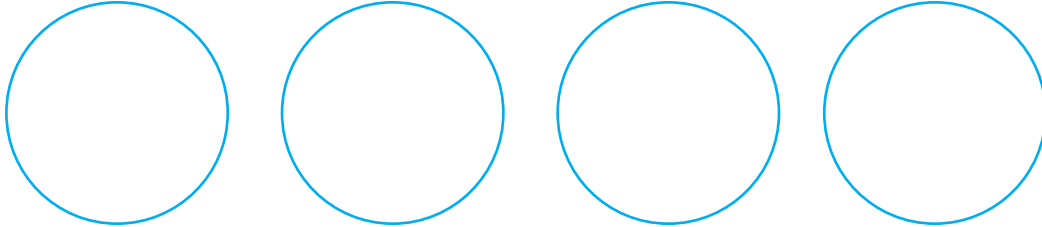
Printable
Answer Key

hand2mind-link.com/M5-AK-W8

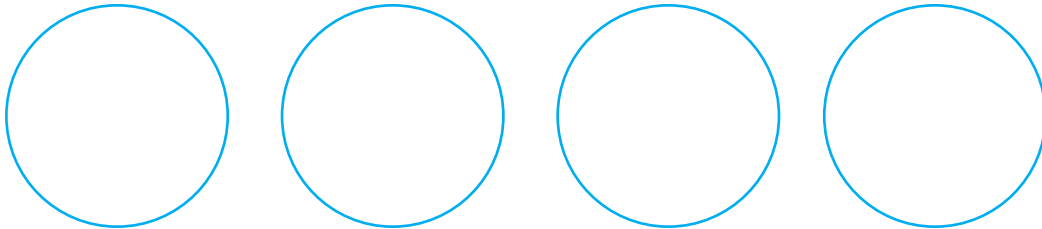


Draw a model for each multiplication problem using Rainbow Fraction® Circles.
Then, solve the problem and write the answer as a mixed number.
You may not need to use all of the circles for your model.

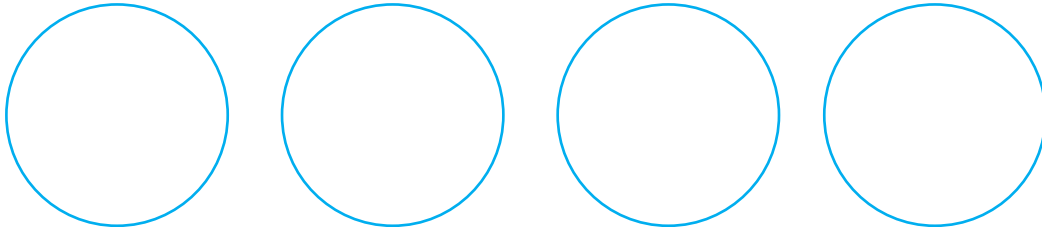
$$\frac{5}{8} \times 5 =$$



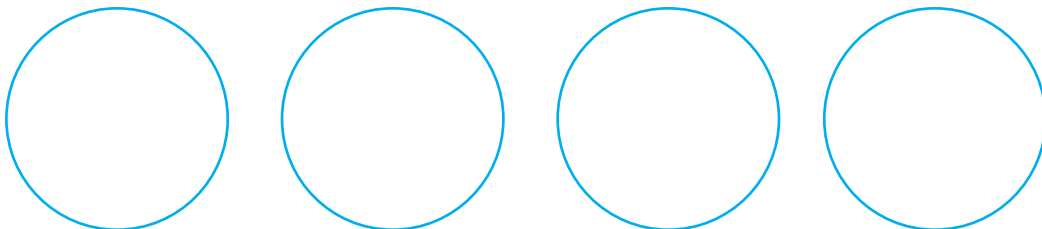
$$3 \times \frac{2}{4} =$$



$$\frac{1}{6} \times 9 =$$



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





Day 1 (continued)

Solve each multiplication problem and write the answer as a mixed number. Use the blank space to show your work.

$$3 \times \frac{7}{10} =$$

$$12 \times \frac{2}{3} =$$

$$\frac{5}{6} \times 10 =$$

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

$$5 \times \frac{7}{8} =$$

$$4 \times \frac{11}{12} =$$

What strategies can you use to multiply fractions? How is multiplying fractions similar to multiplying whole numbers?



Solve each problem. Show your work in the empty space.
Use Rainbow Fraction® Circles to help.

1. Kyle is running a marathon in 2 weeks. He is starting to decrease the length of his daily runs so his body will be in tip-top shape for the marathon. Every day, Kyle runs $\frac{7}{8}$ of the mileage of the prior day. If Kyle ran 10 miles yesterday, how far should he run today?

Kyle should run _____ miles today.

2. Gianna is baking cookies for the school's bake sale. She needs to make 5 times her normal amount of cookies so she has enough for the bake sale. Gianna's recipe calls for $\frac{3}{4}$ cup of brown sugar. How much brown sugar will she need for the bake sale?

Gianna will need _____ cups of brown sugar for the bake sale.



Day 2 (continued)

Solve each problem. Show your work in the empty space.
Use Rainbow Fraction® Circles to help.

1. Nadine is going out of town for 12 days. Before she leaves, she prepares the dog food for her dog, Ruff. Ruff eats $\frac{5}{6}$ cups of dog food for dinner every night. How much dog food will Nadine need to set aside for Ruff's dinners?

Nadine should set aside _____ cups of dog food.

2. Otto walks $\frac{7}{8}$ miles each way to and from school every day. How many miles does Otto walk each week (Monday-Friday)?

Otto walks _____ miles each week.



Write a number sentence for each problem. Then, solve the problem.
 Use the model of Rainbow Fraction® Tiles to help.

What is $\frac{1}{2}$ of $\frac{3}{4}$?



___ x ___ = ___

What is $\frac{2}{3}$ of $\frac{1}{2}$?



___ x ___ = ___

What is $\frac{1}{2}$ of $\frac{1}{3}$?



___ x ___ = ___

What is $\frac{1}{4}$ of $\frac{2}{3}$?



___ x ___ = ___

What is $\frac{1}{2}$ of $\frac{2}{5}$?



___ x ___ = ___

What is $\frac{1}{3}$ of $\frac{5}{6}$?



___ x ___ = ___



Day 3 (continued)

Find each product. Model the multiplication problem in the space provided using Rainbow Fraction® Circles or Rainbow Fraction® Tiles.

$$\frac{1}{2} \times \frac{1}{6} =$$

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

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

$$\frac{1}{2} \times \frac{7}{10} =$$

$$\frac{1}{4} \times \frac{8}{10} =$$

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



Solve each problem. Show your work in the empty space.
Use Rainbow Fraction® Circles or Rainbow Fraction® Tiles to help.

1. Ms. Simon's class is having a pizza party today. She cuts the pizza into 8 equal slices. At the end of the party, there is only $\frac{1}{2}$ slice of pizza left. How much of the total pizza is left over?

There is $\frac{\square}{\square}$ of the pizza left over.

2. Gus is an assistant chef at the Pizza Pantry. At the beginning of his shift, he notices that there is $\frac{7}{8}$ kilograms of flour left. During his shift, he uses $\frac{1}{2}$ of the flour. How much flour is left now?

There is $\frac{\square}{\square}$ kilograms of flour left.



Day 4 (continued)

Solve each problem. Show your work in the empty space.
Use Rainbow Fraction® Circles or Rainbow Fraction® Tiles to help.

3. The day after her birthday party, Carol sees that $\frac{1}{2}$ of the cake is remaining. That night, Carol and her family eat $\frac{2}{5}$ of the remaining cake. How much cake is left now?

There is $\frac{\square}{\square}$ cake remaining now.

4. Rhonda is $\frac{1}{3}$ of the way through her favorite movie. Before bed, Rhonda watches $\frac{3}{4}$ of the rest of the film. How much of the movie did Rhonda watch before bed?

Rhonda watched $\frac{\square}{\square}$ of the movie before bed.



Complete each multiplication number sentence.
Then, draw a model of the multiplication problem.

$$\frac{1}{2} \times \frac{\square}{6} = \frac{5}{12}$$

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

$$\frac{1}{3} \times \frac{\square}{5} = \frac{4}{15}$$

$$\frac{\square}{4} \times \frac{3}{6} = \frac{3}{8}$$

$$\frac{\square}{5} \times \frac{4}{5} = \frac{16}{25}$$

$$\frac{7}{8} \times \frac{\square}{6} = \frac{7}{12}$$

$$\frac{2}{3} \times \frac{\square}{10} = \frac{3}{5}$$

$$\frac{\square}{8} \times \frac{1}{2} = \frac{7}{16}$$



Day 5 (continued)

Write 2 possible number sentences for each multiplication problem. Some problems may require the use of fractions where the numerator is greater than the denominator.

	Number Sentence 1	Number Sentence 2
$\frac{\square}{5} \times \frac{\square}{8} = \frac{12}{40}$		
$\frac{\square}{5} \times \frac{\square}{10} = \frac{18}{50}$		
$\frac{\square}{3} \times \frac{\square}{10} = \frac{28}{30}$		
$\frac{\square}{12} \times \frac{\square}{5} = \frac{20}{60}$		
$\frac{\square}{10} \times \frac{\square}{8} = \frac{24}{80}$		