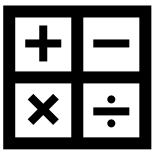
Tiffany Park: ____5th__ Grade

Math: In-Home Learning April 20th - 24th

Overview of Week: *This week you will review mixed numbers and improper fractions, multiply fractions with whole numbers, multiply fractions with a fraction, divide fractions with whole numbers, and divide fractions with a fraction. Additionally, there are pages from Bridges that use these same concepts to solve story problems and equations using the array strategy.*

Monday	Tuesday	Wednesday	Thursday	Friday
Mixed Numbers and Improper Fractions	Multiply Fraction with a Fraction	Multiply Fraction with a Whole Number	Divide Fraction with a Fraction	Divide Fraction with a Whole Number

Monday: Mixed Numbers and Improper Fractions



Watch each video and complete online practice

Khan Academy video - writing mixed numbers as improper fractions

Khan Academy video – writing improper fractions as mixed numbers

Khan Academy online practice – mixed numbers and improper fractions

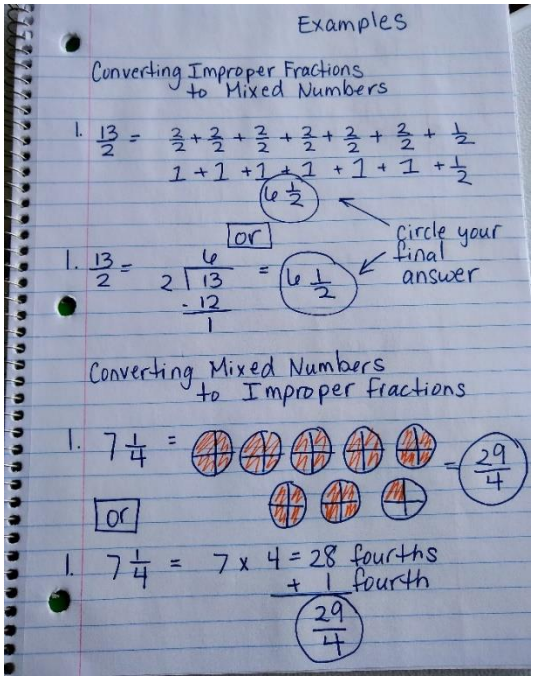
Complete worksheet on separate sheet of paper showing your work.

See example:

This example shows two ways to solve problem one, from both sections of the worksheet.

You can choose the way you want to solve but you need to show how you did it.

Write neatly enough so another person can read your work.



Name : _____ Score : _____

Teacher : _____ Date : _____

Converting Improper Fractions to Mixed Numbers

1) $\frac{13}{2}$ = ____ 2) $\frac{15}{2}$ = ____ 3) $\frac{46}{6}$ = ____

4) $\frac{5}{2}$ = ____ 5) $\frac{31}{9}$ = ____ 6) $\frac{19}{5}$ = ____

7) $\frac{13}{3}$ = ____ 8) $\frac{7}{3}$ = ____ 9) $\frac{42}{8}$ = ____

10) $\frac{31}{4}$ = ____ 11) $\frac{17}{3}$ = ____ 12) $\frac{19}{9}$ = ____

13) $\frac{42}{10}$ = ____ 14) $\frac{36}{7}$ = ____ 15) $\frac{24}{7}$ = ____

Converting Mixed Numbers to Improper Fractions

1) $7\frac{1}{4}$ = ____ 2) $7\frac{3}{5}$ = ____ 3) $4\frac{1}{3}$ = ____

4) $2\frac{7}{8}$ = ____ 5) $8\frac{3}{4}$ = ____ 6) $7\frac{3}{5}$ = ____

7) $9\frac{3}{7}$ = ____ 8) $6\frac{3}{4}$ = ____ 9) $6\frac{4}{5}$ = ____

10) $8\frac{9}{10}$ = ____ 11) $9\frac{3}{4}$ = ____ 12) $6\frac{1}{9}$ = ____

13) $3\frac{1}{8}$ = ____ 14) $6\frac{1}{3}$ = ____ 15) $5\frac{9}{10}$ = ____

Tuesday: Multiply Fraction with a Fraction

Watch videos

Kahn Academy video – multiply fraction with a fraction

Math Antics video – multiply fraction with a fraction

Complete worksheet on separate sheet of paper showing your work. (unless you can print)

Name : _____ Score : _____

Teacher : _____ Date : _____

Multiplying Fractions

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

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

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

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

5) $\frac{3}{5} \times \frac{8}{10} =$

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

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

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

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

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

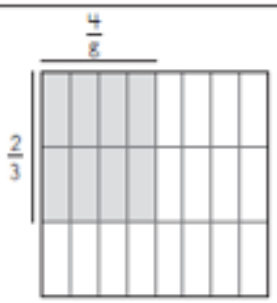
Math-Aids.Com
Fractions Worksheets

NAME | DATE

Operating with Fractions & Whole Numbers page 2 of 2

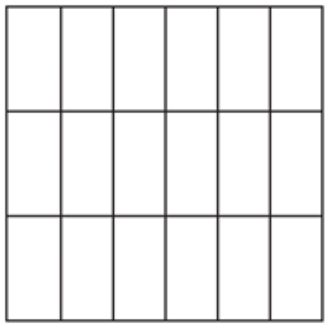
2 Solve each of the multiplication problems below. For each:

- Divide the dimensions of each square so that you can represent each fraction as a dimension of a rectangle.
- Draw and label the dimensions and area, and write the answer.
- Write the problem and answer in words.

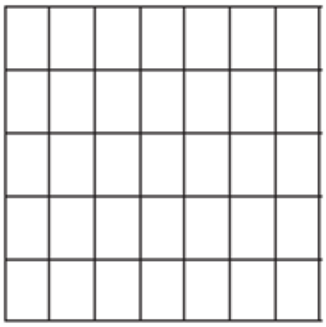
ex $\frac{2}{3} \times \frac{4}{8} = \frac{8}{24} = \frac{1}{3}$		Two-thirds of four-eighths is eight twenty-fourths, or $\frac{2}{3}$.
a $\frac{2}{4} \times \frac{3}{5} =$		
b $\frac{2}{3} \times \frac{4}{6} =$		
c $\frac{3}{4} \times \frac{5}{10} =$		

3 Use the grids to model and solve each combination. Be sure to label your sketch and write the answer for each problem.

$\frac{2}{3} \times \frac{4}{6} =$ _____



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



6 Valerie watched her friend multiply $\frac{3}{4} \times \frac{5}{6}$. Her friend got an answer larger than $\frac{5}{6}$. Valerie thinks that the answer is not correct. Do you agree? Why or why not?

7 The soccer team went to Pizza Palace to celebrate the end of the session. They got several rectangular pizzas for the players to share. Each player got ($\frac{1}{5}$, $\frac{1}{4}$, $\frac{3}{8}$) of one of the pizzas. Sara ate ($\frac{3}{8}$, $\frac{2}{3}$, $\frac{5}{6}$) of her share. How much of a whole pizza did Sara eat?

Expression: _____

Sara ate _____ of the whole pizza.

Wednesday: Multiply Fraction with a Whole Number

Watch video

Khan Academy video – Multiply fractions with a whole number

Complete worksheet on separate sheet of paper showing your work. (unless you can print)

Name : _____ Score : _____

Teacher : _____ Date : _____

Multiplying Fractions and Whole Numbers

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

2) $\frac{2}{6} \times 8 =$

3) $\frac{3}{5} \times 11 =$

4) $\frac{4}{8} \times 19 =$

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

6) $\frac{1}{8} \times 13 =$

7) $\frac{3}{6} \times 11 =$

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

9) $\frac{6}{7} \times 20 =$

10) $\frac{3}{6} \times 2 =$

4 Solve each multiplication problem, and give the answer as a mixed number. Show all your work.

$4 \times \frac{5}{8} =$ _____	$12 \times \frac{2}{5} =$ _____	$\frac{3}{5} \times 6 =$ _____

5 Write a story problem for one of the combinations in item 4.

b Little Snail can crawl ($\frac{1}{4}$, $\frac{1}{3}$, $\frac{3}{4}$, $\frac{7}{8}$) of a mile a day. How far can he crawl in 5 days if he crawls the same distance each day?

Expression: _____

Little Snail can crawl _____ miles in 5 days.

c Keiko always takes her water bottle with her when she hikes, and she always drinks half a liter of water for every mile she hikes. Yesterday, she hiked $\frac{3}{4}$ a mile. What fraction of a liter of water did she drink?

Expression: _____

Keiko drank _____ of a liter of water.

b Jake and his dad are making flags for a scouting project. They are going to make (6, 12, 18) flags. Each flag takes ($\frac{2}{3}$, $\frac{3}{4}$, $\frac{5}{6}$) of a yard of cloth. How many yards of cloth will they need in all?

Expression: _____

Jake and his dad will need _____ yards of cloth in all.

c It takes ($4\frac{1}{2}$, $4\frac{3}{4}$, $4\frac{1}{4}$) feet of craft lace to make a short lanyard for a keychain. John wants to make a lanyard for each of his (5, 6, 7) aunts and uncles. How many feet of craft lace will he need in all?

Expression: _____

John will need _____ feet of craft lace.

Thursday: Divide Fraction with a Fraction

Watch video

Math Antics video – divide fraction by a fraction

Complete worksheet on separate sheet of paper showing your work. (unless you can print)

Name : _____ Score : _____

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Dividing Fractions

1) $\frac{5}{10} \div \frac{6}{12} =$

2) $\frac{10}{16} \div \frac{5}{18} =$

3) $\frac{1}{3} \div \frac{11}{15} =$

4) $\frac{3}{4} \div \frac{4}{8} =$

5) $\frac{1}{10} \div \frac{1}{16} =$

6) $\frac{2}{5} \div \frac{15}{20} =$

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

8) $\frac{15}{16} \div \frac{6}{7} =$

9) $\frac{1}{3} \div \frac{11}{12} =$

10) $\frac{3}{4} \div \frac{3}{20} =$

Friday: Divide Fraction with a Whole Number

Watch video

Kahn Academy video – divide fraction with a whole number

Complete worksheet on separate sheet of paper showing your work. (unless you can print)

Name : _____ Score : _____

Teacher : _____ Date : _____

Dividing Fractions and Whole Numbers

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

2) $8 \div \frac{4}{5} =$

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

4) $8 \div \frac{3}{5} =$

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

6) $7 \div \frac{1}{10} =$

7) $7 \div \frac{2}{3} =$

8) $\frac{3}{4} \div 9 =$

9) $\frac{3}{5} \div 3 =$

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

2 Use multiplication to check your answer for each of the division problems below.

ex $100 \div 4 =$ 25 I know this is correct because $25 \times 4 = 100$	**ex** $\frac{1}{2} \div 2 =$ $\frac{1}{4}$ I know this is correct because $\frac{1}{4} \times 2 = \frac{1}{2}$
a $\frac{1}{2} \div 4 =$ _____	**b** $\frac{1}{4} \div 2 =$ _____
c $\frac{1}{3} \div 2 =$ _____	**d** $\frac{1}{4} \div 4 =$ _____

8 **CHALLENGE** Maria says that dividing $\frac{1}{2}$ by 3 is the same as multiplying $\frac{1}{2}$ by $\frac{1}{3}$. Do you agree with her? Why or why not? Use numbers, labeled models, or words to explain your thinking.