

# MULTIPLYING FRACTIONS BY WHOLE NUMBERS

4<sup>th</sup> Grade



Printable & Google Slides

NAME: \_\_\_\_\_

# MULTIF

Directions: You are at are shown below. Calc



NAME: \_\_\_\_\_

# MULT

Directions: The fraction is on e middle, and the Determine and



NAME: \_\_\_\_\_

# MULT

Directions: Cut o left to right: a fr number. Paste th

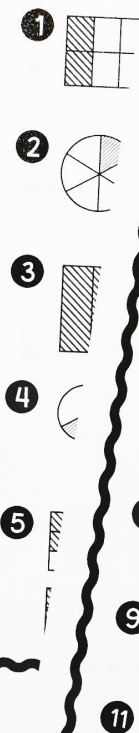


NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

# MULT

Directions: Write product. Conver

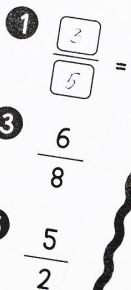


NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

# MULTI

Directions: Each fr and a unit fraction missing fraction, v

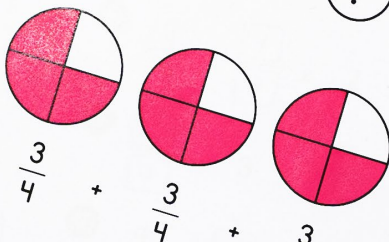


# MULTIPLYING FRACTION

by a whole number

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

**METHOD 1**  
Draw a model



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

**METHOD 2**  
Multiply

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

Rewrite whole number as a fraction with denominator of 1

Multiply numerators

Multiply denominators

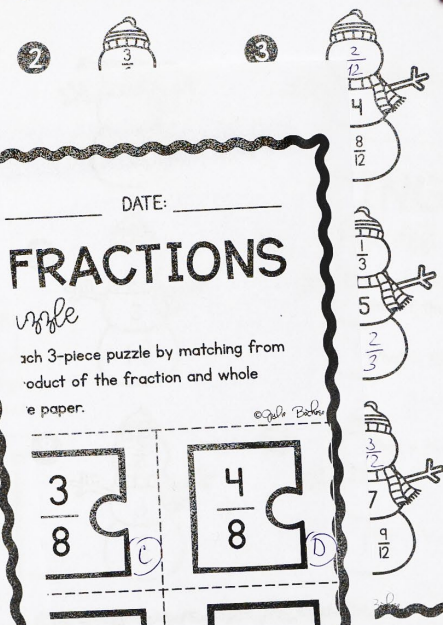


NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

*fraction snowmen*

Below are made up of fraction multiplication equations. The man's head, the whole number it is being multiplied by is on its of the equation is on the bottom-most part of the snowman. missing number on each of the snowmen.



NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

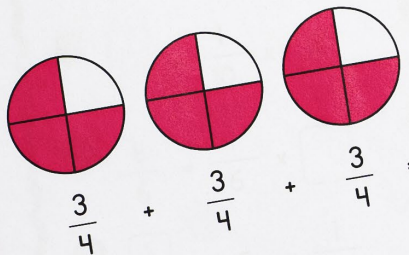
# MULTIPLYING FRACTIONS

## MULTIPLYING FRACTIONS

*by a whole number*

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

**METHOD 1**  
Draw a model



**METHOD 2**  
Multiply

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

Multiply numerators:  $3 \times 3 = 9$   
Multiply denominators:  $4 \times 1 = 4$   
Rewrite whole number as a fraction with denominator of 1:  $3 = \frac{3}{1}$

## FRACTIONS

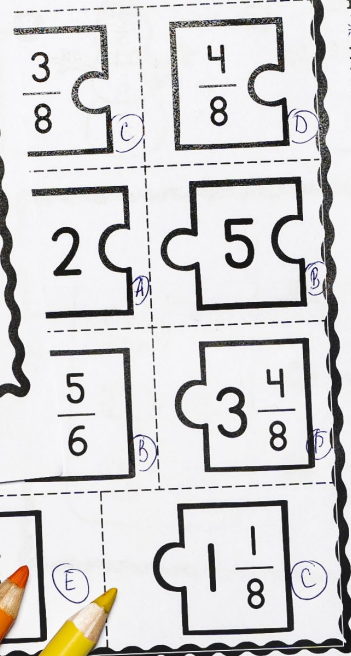
sents. Find the

$$\begin{aligned} 3 &= \frac{6}{8} \\ 4 &= \frac{4}{6} \\ 2 &= \frac{6}{5} = 1 \frac{1}{5} \\ 6 &= \frac{12}{3} = 4 \\ 8 &= \frac{32}{4} = 8 \end{aligned}$$

DATE: \_\_\_\_\_

## FRACTIONS

Each 3-piece puzzle by matching from product of the fraction and whole on paper.





NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

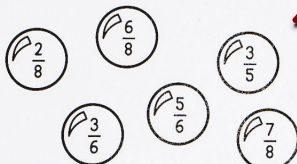
## MULTIPLYING FRACTIONS

*fraction bubbles*

show a fraction, whole number, or product. Color three in an equation with a fraction, whole number, and product. Use in another multiplication equation until you can't

RACTIONS

of each del item

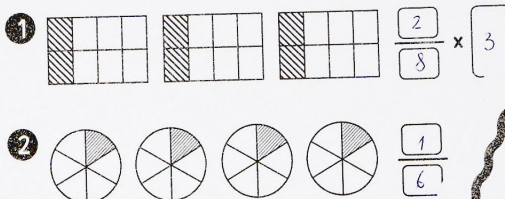


DATE: \_\_\_\_\_

## MULTIPLYING FRACTIONS

*using models*

Directions: Write the multiplication equation that each picture represents. Find the product. Convert any improper fractions into mixed numbers.



NAME: \_\_\_\_\_

## MULTIPLYING

*unit fraction*

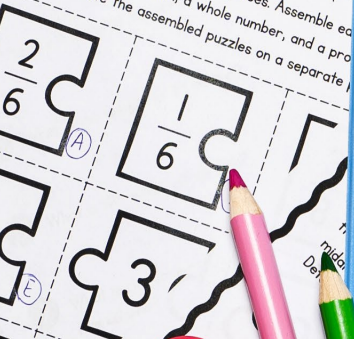
Each fraction below is written as a multiplication equation. One piece of each equation is missing. Fill in the space with the missing fraction, whole number, or unit fraction.

2

## MULTIPLYING

*fraction puzzle*

Directions: Cut out the puzzle pieces. Assemble each puzzle. Write the multiplication equation for each puzzle. One piece of each equation is missing. Paste the assembled puzzles on a separate sheet of paper.



## MULTIPLYING FRACTIONS

*unit fractions*

Directions: Each fraction below is written as a multiplication equation of a whole number and a unit fraction. One piece of each equation is missing. Fill in the space with the missing fraction, whole number, or unit fraction.

- 7  $\frac{\square}{\square} = \frac{1}{10} \times 6$

8  $\frac{\square}{\square} = 3 \times \frac{1}{7}$

9  $\frac{8}{6} = \frac{1}{6} \times \square$

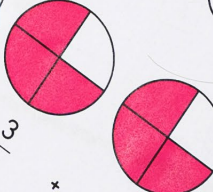
10  $\frac{9}{3} = \frac{\square}{\square} \times 9$

11  $\frac{\square}{\square} = 5 \times \frac{1}{2}$

12  $\frac{4}{8} = 4 \times \frac{\square}{\square}$

## MULTIPLYING

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



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

### METHOD 2

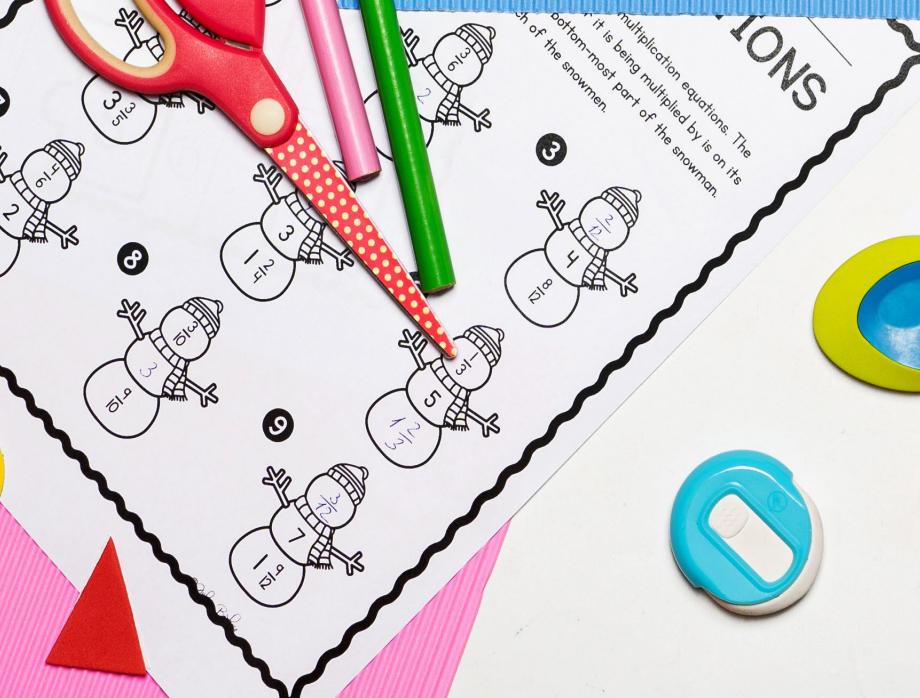
Multiply

Rewrite whole number as a fraction with denominator of 1

$\frac{4}{3} \times 3 = \frac{4}{3} \times \frac{3}{1} = \frac{4 \times 3}{3 \times 1} = \frac{12}{3} = 4$

Multiply numerators

Multiply denominators



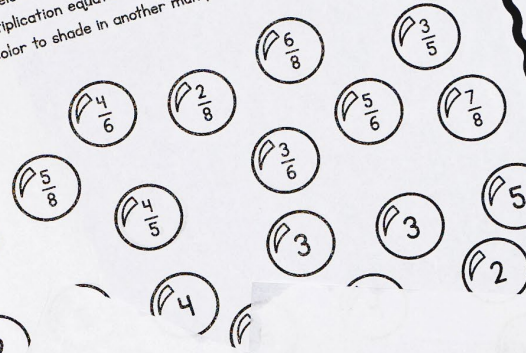
NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

*fraction bubbles*

Directions: The bubbles below show a fraction, whole number, or product. Color three bubbles to create a multiplication equation with a fraction, whole number, and product. Different color to shade in another multiplication equation until you can't

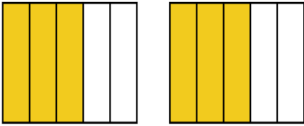


## MULTIPLYING FRACTIONS

using models

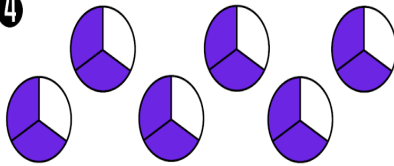
Directions: Write the multiplication equation that each picture represents. Find the product. Convert any improper fractions into mixed numbers.

3



$$\frac{\boxed{3}}{\boxed{2}} \times \frac{\boxed{3}}{\boxed{2}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

4



$$\frac{\boxed{2}}{\boxed{3}} \times \frac{\boxed{2}}{\boxed{3}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

## MULTIPLYING FRACTIONS

*by a whole number*

$$\frac{3}{4} \times 3 = \boxed{?}$$

NAME: \_\_\_\_\_

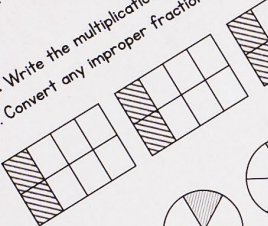
DATE: \_\_\_\_\_

## MULTIPLYING FRACTIONS

*using models*

Directions: Write the multiplication equation that each picture represents. Find the product. Convert any improper fractions into mixed numbers.

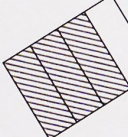
1



2



3



4



5

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

## MULTIPLYING FRACTIONS

*unit fractions*

Directions: Each fraction below is written as a multiplication equation of a whole number and a unit fraction. One piece of each equation is missing. Fill in the space with the missing fraction, whole number, or unit fraction.

$$\textcircled{1} \quad \frac{\boxed{3}}{\boxed{5}} = \frac{1}{5} \times 3$$

$$\textcircled{2} \quad \frac{4}{4} = \boxed{4} \times \frac{1}{4}$$

$$\textcircled{3} \quad \frac{6}{8} = 6 \times \frac{\boxed{1}}{\boxed{8}}$$

$$\textcircled{4} \quad \frac{\boxed{8}}{\boxed{3}} = \frac{1}{3} \times 8$$

$$\textcircled{5} \quad \frac{5}{2} = \boxed{5} \times \frac{1}{2}$$

$$\textcircled{6} \quad \frac{2}{9} = \frac{\boxed{1}}{\boxed{9}} \times 2$$

$$\textcircled{7} \quad \frac{\boxed{6}}{\boxed{10}} = \frac{1}{10} \times 6$$

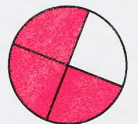
$$\textcircled{8} \quad \frac{\boxed{3}}{\boxed{7}} = 3 \times \frac{1}{7}$$

$$\textcircled{9} \quad \frac{8}{6} = \frac{1}{6} \times \boxed{\phantom{00}}$$

$$\textcircled{10} \quad \frac{9}{3} = \frac{\boxed{1}}{\boxed{3}} \times 9$$

$$\textcircled{11} \quad \frac{\boxed{5}}{\boxed{2}} = 5 \times \frac{1}{2}$$

$$\textcircled{12} \quad \frac{4}{8} = 4 \times \frac{\boxed{1}}{\boxed{8}}$$



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

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



NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

*at the deli counter*

Directions: You are at the deli counter at the supermarket. The weights of each deli item are shown below. Calculate the weights of these deli orders you overhear.

What is the weight of eight sausages?

f five steaks?

# MULTIPLYING FRACTIONS

fraction bubbles  
bubbles below show a fraction, whole number, or product. Color three multiplication equation with a fraction, whole number, and product. Different color to shade in another multiplication equation until you can't



NAME: \_\_\_\_\_

# MULTIPLYING

# MULTIPLYING FRACTIONS

*using models*

Directions: Write the multiplication equation that each picture represents. Write the fractions into mixed numbers.



NAME: \_\_\_\_\_

# MULTIPLYING FRACTIONS

Directions: Each fraction below is written as a multiplication equation and a unit fraction. One piece of each equation is missing. Write the missing fraction, whole number, or unit fraction.

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

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

$$\frac{5}{12} \times \frac{1}{2} = \frac{5}{24}$$

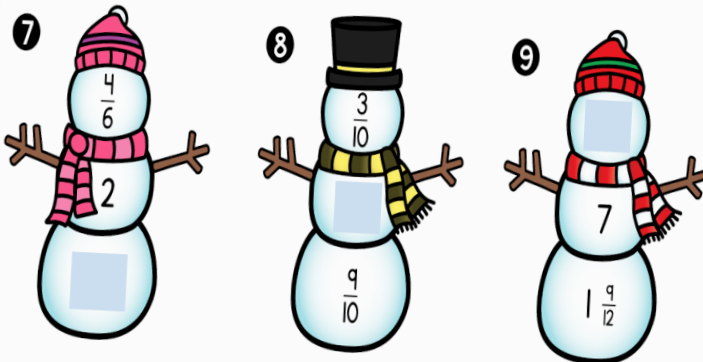
$$\frac{10}{3} = \frac{1}{3} \times 10$$

$$\frac{12}{8} = 4 \times \frac{3}{8}$$

# MULTIPLYING FRACTIONS

*fraction snowmen*

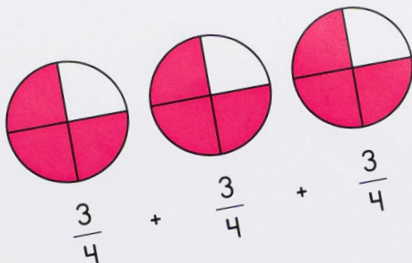
Directions: The snowmen below are made up of fraction multiplication equations. The fraction is on each snowman's head, the whole number it is being multiplied by is on its middle, and the product of the equation is on the bottom-most part of the snowman. Determine and fill in the missing number on each of the snowmen.



# MULTIPLYING FRACTIONS

*by a whole number*

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

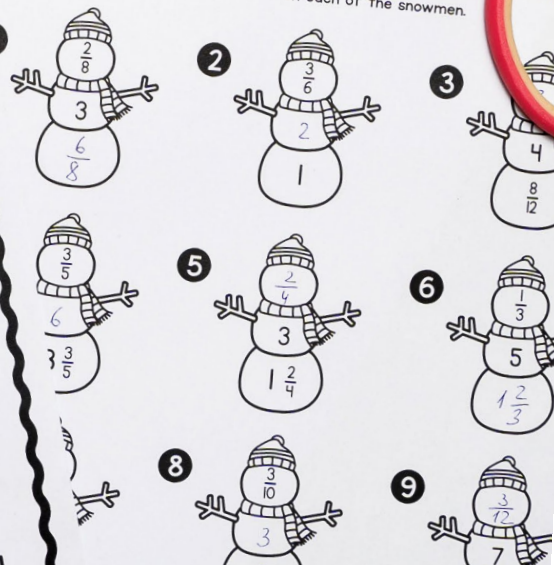


$$\frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{9}{4} = 2 \frac{1}{4}$$

**METHOD 1**  
Draw a model

Multiply numerators

Directions: The snowmen below are made up of fraction multiplication equations. The fraction is on each snowman's head, the whole number it is being multiplied by is on its middle, and the product of the equation is on the bottom-most part of the snowman. Determine and fill in the missing number on each of the snowmen.



DATE: \_\_\_\_\_

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

*unit fractions*

Directions: Each fraction below is written as a multiplication equation of a whole number and a unit fraction. One piece of each equation is missing. Fill in the space with the missing.

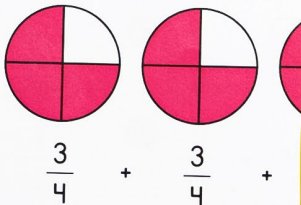
# MULTIPLYING FRACTIONS

*by a whole number*

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

**METHOD 1**

Draw a model



$$\frac{3}{4} + \frac{3}{4} +$$

**METHOD 2**

Multiply

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

Rewrite whole number as a fraction with denominator of 1

Multiply numerators

Multiply denominators

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

*fraction bubbles*

Directions: The bubble bubbles to create a n. Then, use a different make anymore.

FRACTIONS

$$\frac{2}{5}$$

$$\frac{3}{8}$$

WHOLE NUMBERS

$$2$$

$$3$$

PRODUCTS

$$1\frac{1}{5}$$

$$3\frac{2}{6}$$

NAME: \_\_\_\_\_

# MULTIPLYING FRACTIONS

*fraction puzzle*

Directions: Cut out the puzzle pieces. Assemble each 3-piece left to right: a fraction, a whole number, and a product of number. Paste the assembled puzzles on a separate paper.

$$\frac{2}{6}$$

$$\frac{1}{6}$$

$$\frac{3}{8}$$

$$\frac{5}{6}$$

$$3$$

$$2$$

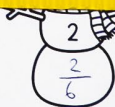
# MULTIPLYING FRACTIONS

*at the deli counter*

Directions: You are at the deli counter at the supermarket. The weights of each deli item are shown below. Calculate the weights of these deli orders you overhear. Show your work in the textboxes.

|                                      |                                            |                                   |                                 |                                          |                                  |                                  |                                   |
|--------------------------------------|--------------------------------------------|-----------------------------------|---------------------------------|------------------------------------------|----------------------------------|----------------------------------|-----------------------------------|
|                                      |                                            |                                   |                                 |                                          |                                  |                                  |                                   |
| Turkey leg<br>$\frac{2}{6}$ lb. each | Package of bacon<br>$\frac{4}{5}$ lb. each | Sausage<br>$\frac{3}{8}$ lb. each | Fish<br>$1\frac{1}{4}$ lb. each | Whole chicken<br>$4\frac{1}{2}$ lb. each | Steak<br>$\frac{8}{10}$ lb. each | Salami<br>$\frac{2}{3}$ lb. each | Shrimp<br>$\frac{1}{12}$ lb. each |

7 What is the combined weight of four turkey legs and five salamis?





NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

*fraction puzzle*

Directions: Cut or left to right: a fraction. Paste the pieces. Assemble each 3-piece puzzle by matching the product of the fraction and who!

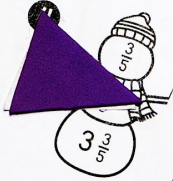
$$\frac{2}{6} \times \frac{1}{6}$$

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

NAME: \_\_\_\_\_

## MULTIPLYING

Directions: The snowman fraction is on each snowman's middle, and the product is on the snowman's head. Determine and fill in the missing fraction.

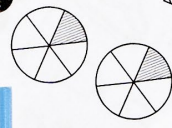
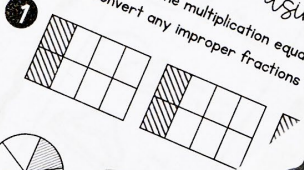


NAME: \_\_\_\_\_

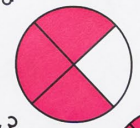
## MULTIPLYING FRACTIONS

*using models*

Directions: Write the multiplication equation for the product. Convert any improper fractions into mixed numbers.



**METHOD 1**  
Draw a model



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

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

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

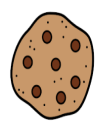
$$\frac{4}{3} \times \frac{1}{3} = \frac{4}{9}$$

## MULTIPLYING FRACTIONS

test

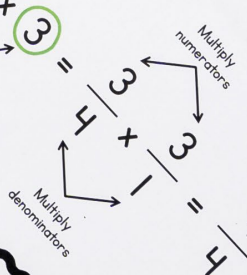
Directions: Solve the word problem involving multiplying fractions.

24 Zoe is baking cookies. Each batch of cookies calls for  $\frac{3}{4}$  of a cup of butter. She is making 4 batches of chocolate chip cookies and 3 batches of peanut butter cookies. How much butter will Zoe use in total?



Method 2  
Multiply

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



# MULTIPLYING FRACTIONS BY WHOLE NUMBERS

4<sup>th</sup> grade

## Table of Contents

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6. Test Review (4 pages)
7. Test (4 pages)



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# MULTIPLYING FRACTIONS

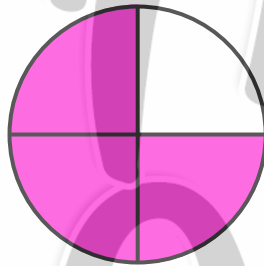


by a whole number

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

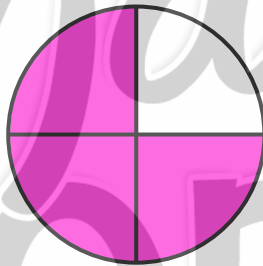
## METHOD 1

Draw a model



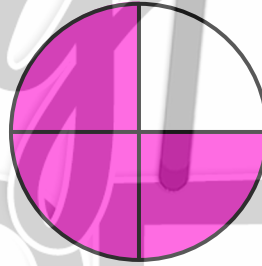
$$\frac{3}{4}$$

+



$$\frac{3}{4}$$

+



$$\frac{3}{4}$$

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

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

Multiply  
numerators



## METHOD 2

Multiply

$$\frac{3}{4}$$

$\times$

$$3$$

$=$

$$\frac{3}{4}$$

$\times$

$$\frac{3}{1}$$

$=$

$$\frac{9}{4}$$

$=$

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

Rewrite whole number  
as a fraction with  
denominator of 1

Multiply  
denominators



NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

*unit fractions*

**Directions:** Each fraction below is written as a multiplication equation of a whole number and a unit fraction. One piece of each equation is missing. Fill in the space with the missing fraction, whole number, or unit fraction.

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

2  $\frac{4}{4} = \square \times \frac{1}{4}$

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

4  $\frac{\square}{\square} = \frac{1}{3} \times 8$

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

6  $\frac{2}{9} = \frac{\square}{\square} \times 2$

7  $\frac{\square}{\square} = \frac{1}{10} \times 6$

8  $\frac{\square}{\square} = 3 \times \frac{1}{7}$

9  $\frac{8}{6} = \frac{1}{6} \times \square$

10  $\frac{9}{3} = \frac{\square}{\square} \times 9$

11  $\frac{\square}{\square} = 5 \times \frac{1}{2}$

12  $\frac{4}{8} = 4 \times \frac{\square}{\square}$

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

*unit fractions*

**Directions:** Rewrite each fraction as a multiplication equation of a whole number and a unit fraction.

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

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

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

4  $\frac{4}{10} =$

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

6  $\frac{7}{9} =$

7  $\frac{4}{3} =$

8  $\frac{9}{6} =$

9  $\frac{12}{2} =$

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

11  $\frac{3}{11} =$

12  $\frac{6}{5} =$

NAME: \_\_\_\_\_

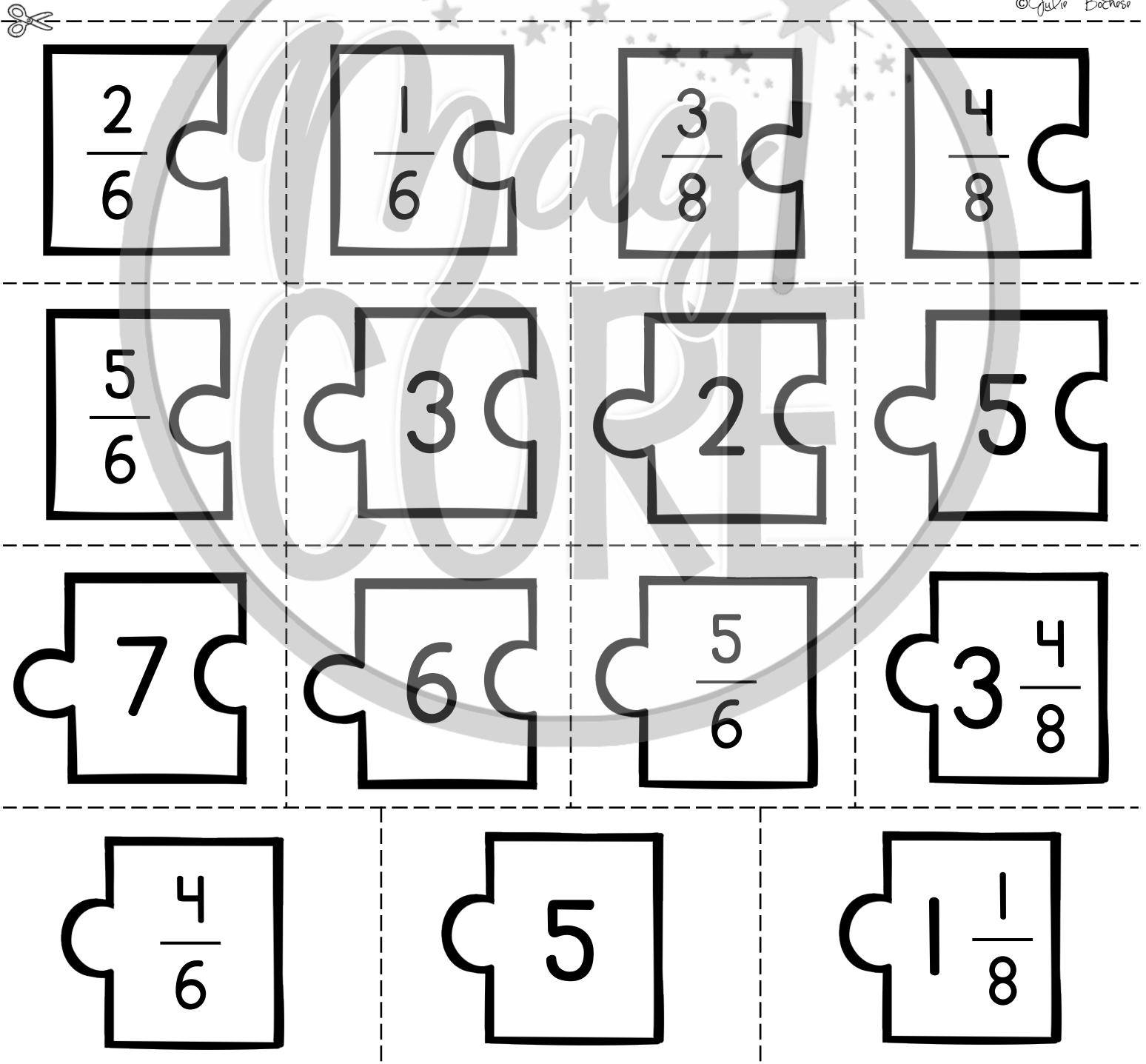
DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

## *fraction puzzle*

**Directions:** Cut out the puzzle pieces. Assemble each 3-piece puzzle by matching from left to right: a fraction, a whole number, and a product of the fraction and whole number. Paste the assembled puzzles on a separate paper.

©Julie Bachore



NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

## *fraction snowmen*

**Directions:** The snowmen below are made up of fraction multiplication equations. The fraction is on each snowman's head, the whole number it is being multiplied by is on its middle, and the product of the equation is on the bottom-most part of the snowman. Determine and fill in the missing number on each of the snowmen.

1. Snowman 1: Head:  $\frac{2}{8}$ , Middle: 3, Bottom: \_\_\_\_\_

2. Snowman 2: Head:  $\frac{3}{6}$ , Middle: 1, Bottom: \_\_\_\_\_

3. Snowman 3: Head: \_\_\_\_\_, Middle: 4, Bottom:  $\frac{8}{12}$

4. Snowman 4: Head:  $\frac{3}{5}$ , Middle:  $3\frac{3}{5}$ , Bottom: \_\_\_\_\_

5. Snowman 5: Head: \_\_\_\_\_, Middle: 3, Bottom:  $1\frac{2}{4}$

6. Snowman 6: Head:  $\frac{1}{3}$ , Middle: 5, Bottom: \_\_\_\_\_

7. Snowman 7: Head:  $\frac{4}{6}$ , Middle: 2, Bottom: \_\_\_\_\_

8. Snowman 8: Head:  $\frac{3}{10}$ , Middle:  $\frac{9}{10}$ , Bottom: \_\_\_\_\_

9. Snowman 9: Head: \_\_\_\_\_, Middle: 7, Bottom:  $1\frac{9}{12}$

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

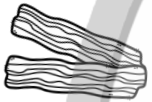
# MULTIPLYING FRACTIONS

*at the deli counter*

**Directions:** You are at the deli counter at the supermarket. The weights of each deli item are shown below. Calculate the weights of these deli orders you overhear.



Turkey leg  
 $\frac{2}{6}$  lb. each



Package of bacon  
 $\frac{4}{5}$  lb. each



Sausage  
 $\frac{3}{8}$  lb. each



Fish  
 $1\frac{1}{4}$  lb. each



Whole chicken  
 $4\frac{1}{2}$  lb. each



Steak  
 $\frac{8}{10}$  lb. each



Salami  
 $\frac{2}{3}$  lb. each



Shrimp  
 $\frac{1}{12}$  lb. each

**1**

What is the weight of eight sausages?

**2**

What is the weight of five steaks?

**3**

What is the weight of three packages of bacon?

**4**

What is the weight of two whole chickens?

**5**

What is the weight of 24 shrimp?

**6**

What is the weight of six fish?

**7**

What is the combined weight of four turkey legs and five salamis?

NAME: \_\_\_\_\_

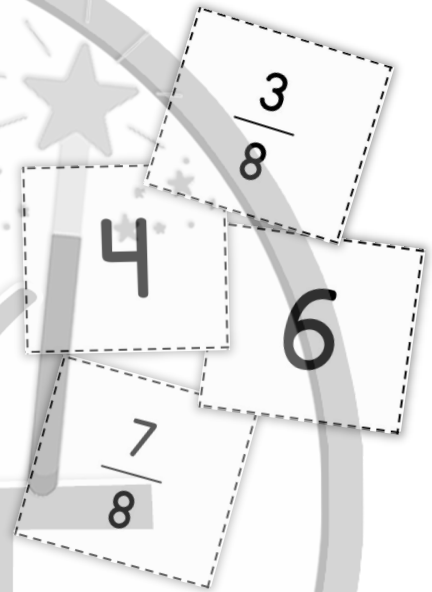
DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

*duel*

## Directions:

1. Work in partners or small groups.
2. Cut out and shuffle the cards from the following pages. Keep the cards from each page separate.
3. Deal an equal number of fraction cards to each player. Players keep their cards face down in a pile.
4. Deal an equal number of whole number cards to each player. Players keep these cards face down in a separate pile.
5. On the count of three, each player flips over the top card from each of their piles. Players multiply their whole number by their fraction and share their products with the other players.
6. The player with the greatest product wins a point.
7. If two players are tied for the greatest product, both players win a point.
8. The person with the most points at the end of the game wins.



# MULTIPLYING FRACTIONS

duel – fraction cards

©Julie Buckner



$$\frac{1}{8}$$

$$\frac{2}{8}$$

$$\frac{3}{8}$$

$$\frac{4}{8}$$

$$\frac{5}{8}$$

$$\frac{6}{8}$$

$$\frac{7}{8}$$

$$\frac{1}{8}$$

$$\frac{2}{8}$$

$$\frac{3}{8}$$

$$\frac{4}{8}$$

$$\frac{5}{8}$$

$$\frac{6}{8}$$

$$\frac{7}{8}$$

$$\frac{5}{8}$$

$$\frac{2}{8}$$

$$\frac{3}{8}$$

$$\frac{4}{8}$$

$$\frac{5}{8}$$

$$\frac{6}{8}$$

# MULTIPLYING FRACTIONS

duel – whole number cards



©Julie Buckner

2

4

7

5

8

6

3

5

5

4

7

4

9

7

2

9

3

8

8

6

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

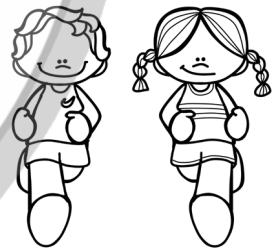
## word problems

**Directions:** Solve the word problems involving multiplying fractions.

- 1** Sasha is making soup so she can have it for lunch every day this week. She anticipates she will eat  $\frac{3}{4}$  of a cup of soup each day for seven days. How much soup should Sasha make?



- 2** Students in PE class ran 6 laps around the school. If each lap is  $\frac{5}{8}$  of a mile, how many miles did the students run in total?



NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

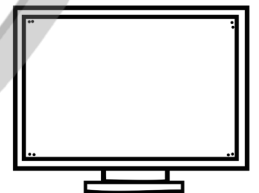
## word problems

**Directions:** Solve the word problems involving multiplying fractions.

- 1** Neha is having a dinner party. There will be 6 people at dinner, and she estimates that each person will eat  $\frac{3}{8}$  of a pound of chicken. How much chicken does Neha need? At the store, Neha sees that chicken is only sold by the whole pound. How many pounds of chicken should Neha buy?



- 2** An episode of the TV show *Andy Astronaut* is  $\frac{2}{6}$  of an hour long. If Caleb watches four episodes in a row, how much time has he spent watching TV?



NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

# MULTIPLYING FRACTIONS

*test review*

**Directions:** Rewrite each fraction as a multiplication equation of a whole number and a unit fraction.

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

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

3  $\frac{4}{10} =$

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

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

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

**Directions:** Rewrite each multiplication equation as an equivalent multiplication equation of a whole number and a unit fraction. Find the product.

7  $2 \times \frac{2}{8} =$    $\times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

8  $4 \times \frac{3}{5} =$    $\times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

9  $3 \times \frac{4}{6} =$    $\times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

10  $8 \times \frac{2}{3} =$    $\times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

11  $6 \times \frac{5}{10} =$    $\times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

12  $5 \times \frac{4}{7} =$    $\times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

**Directions:** Solve the multiplication problems. Convert any improper fractions to mixed numbers.

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

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

15  $\frac{4}{6} \times 2 =$

16  $\frac{3}{7} \times 5 =$

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

18  $\frac{7}{9} \times 2 =$

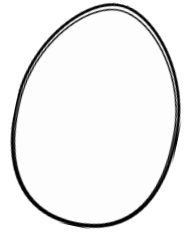
19  $\frac{2}{3} \times 6 =$

20  $\frac{6}{10} \times 7 =$

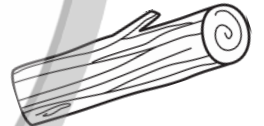
- 21 Your friend Drew thinks that  $\frac{2}{6} \times 3 = \frac{6}{18}$  because you need to multiply both the numerator and denominator by the whole number. Is Drew right? Explain your reasoning with diagrams and with words.

**Directions:** Solve the word problems involving multiplying fractions.

- 22** One crocodile egg weighs  $\frac{3}{8}$  of a pound. In a nest with 12 eggs, what is the total weight of all the eggs?

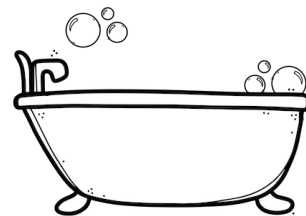


- 23** A wood stove in a cabin takes  $\frac{2}{3}$  of an hour to burn one log. How long does it take the stove to burn 6 logs?



24

Hannah adds  $\frac{3}{5}$  of a cup of bubble bath to the water each time she takes a bath. There are 12 cups of bubble bath in the bottle. How much bubble bath is left after Hannah has taken 8 baths?



25

Cameron is completing an exercise routine. He does squats for  $\frac{8}{10}$  of a minute and then lunges for  $\frac{5}{10}$  of a minute. He then repeats the whole series 4 times. How long does the exercise routine take?



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