

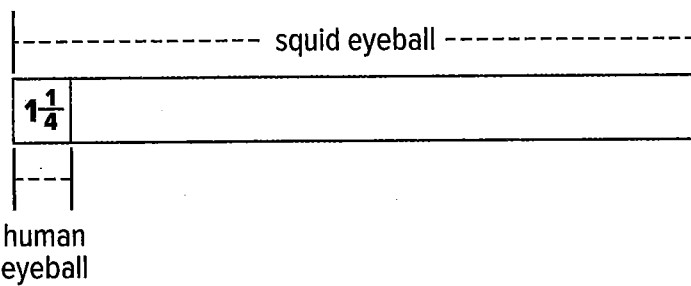
# Multiply Mixed Numbers



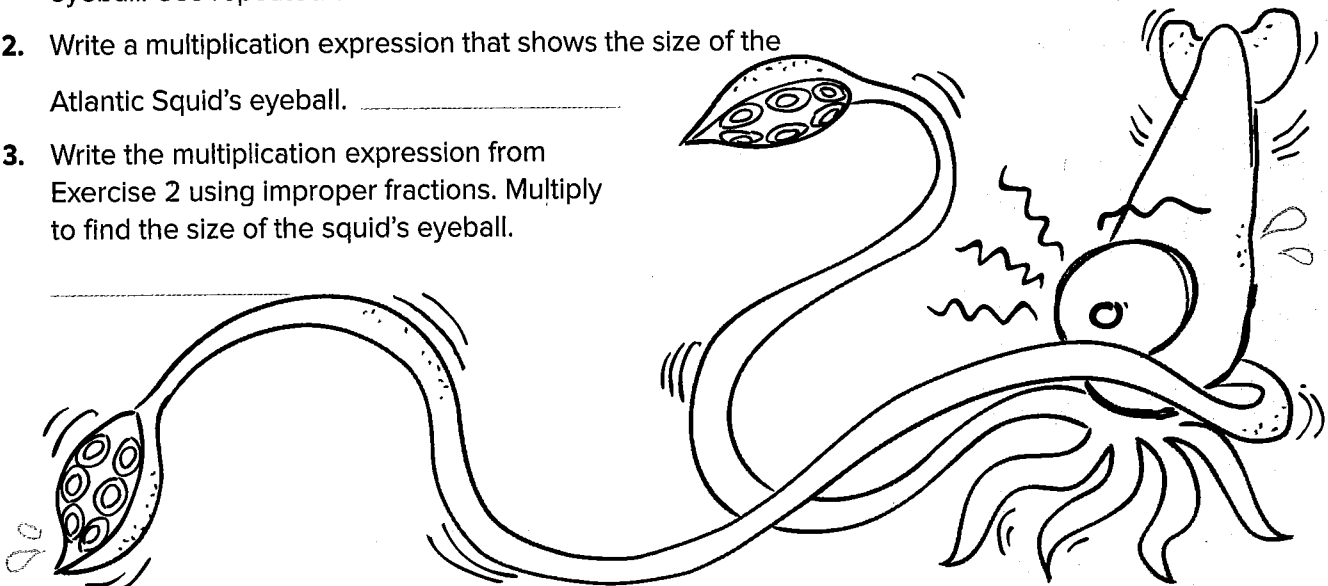
## Real-World Link



**Animals** The eyeball of an Atlantic Giant Squid is about 12 times as large as the average human eyeball. The average human eyeball is  $1\frac{1}{4}$  inches across. Use a bar diagram to compare the average size of a human eyeball to the average size of a Atlantic Giant Squid's eyeball.



- Use the diagram above to compare the average size of the Atlantic Giant Squid's eyeball to the average size of the human eyeball. Use repeated addition.
- Write a multiplication expression that shows the size of the Atlantic Squid's eyeball. \_\_\_\_\_
- Write the multiplication expression from Exercise 2 using improper fractions. Multiply to find the size of the squid's eyeball.



### Essential Question

WHAT does it mean to multiply and divide fractions?



### Common Core State Standards

**Content Standards**  
Preparation for 6.NS.1

**MP Mathematical Practices**  
1, 3, 4, 5

Which **MP Mathematical Practices** did you use?

Shade the circle(s) that applies.

- |  |   |
|--|---|
| <input type="checkbox"/> 1 Persevere with Problems | <input type="checkbox"/> 5 Use Math Tools         |
| <input type="checkbox"/> 2 Reason Abstractly       | <input type="checkbox"/> 6 Attend to Precision    |
| <input type="checkbox"/> 3 Construct an Argument   | <input type="checkbox"/> 7 Make Use of Structure  |
| <input type="checkbox"/> 4 Model with Mathematics  | <input type="checkbox"/> 8 Use Repeated Reasoning |

# Independent Practice

Go online for Step-by-Step Solutions

eHelp



**Multiply. Write in simplest form.** (Examples 1–3)

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

2.  $1\frac{7}{8} \times \frac{4}{5} =$  \_\_\_\_\_

3.  $\frac{7}{8} \times 3\frac{1}{4} =$  \_\_\_\_\_

Show your work.

4.  $1\frac{2}{3} \times 1\frac{1}{4} =$  \_\_\_\_\_

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

6.  $6\frac{2}{3} \times 3\frac{3}{10} =$  \_\_\_\_\_

- 7** A carp can travel at a speed of  $3\frac{7}{10}$  miles per hour. At this rate, how far can a carp travel in  $2\frac{1}{2}$  hours? (Example 4)

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- 8.** Juliette is making fruit salad. She purchased  $9\frac{2}{3}$  ounces each of 6 different fruits. How many ounces of fruit did she purchase? (Example 5)

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- 9** A waffle recipe calls for  $2\frac{1}{4}$  cups of flour. If Chun wants to make  $1\frac{1}{2}$  times the recipe, how much flour does he need? (Example 4)

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- 10. MP Model with Mathematics** Use the formula  $d = rt$  to find the distance  $d$  a long-distance runner can run at a rate  $r$  of  $9\frac{1}{2}$  miles per hour for time  $t$  of  $1\frac{3}{4}$  hours.

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- 11. STEM** Earth is about  $92\frac{9}{10}$  million miles from the Sun. Use the table shown.

- a. How far is Venus from the Sun? \_\_\_\_\_
- b. How far is Mars from the Sun? \_\_\_\_\_
- c. How far is Jupiter from the Sun? \_\_\_\_\_
- d. How far is Saturn from the Sun? \_\_\_\_\_

Planet	Approximate Number of Times as Far from the Sun as Earth
Venus	$\frac{3}{4}$
Mars	$1\frac{1}{2}$
Jupiter	$5\frac{1}{4}$
Saturn	$9\frac{1}{2}$

**SKILL: Essay Writing**

# Great Transitions

Transitions are like bridges between your ideas—they help your readers move from one idea to the next. Here are some transition words and phrases you may wish to use in your essay. Keep in mind that they can be used at the beginning of a sentence or within a sentence.

**If you are adding information or showing similarity between ideas:**

- additionally
- besides
- so too
- first of all/secondly/thirdly
- in addition
- also
- likewise
- to begin with
- as well as
- another
- furthermore
- finally

**If you are showing that one idea is different from another:**

- however
- even though
- in contrast
- on the one hand/on the other hand
- yet
- despite
- still
- some people say/other people say
- but
- although
- in spite of
- regardless

**If you are showing that something is an example of what you just stated:**

- for example
- to illustrate
- this can be seen
- for instance
- namely
- specifically

**If you want to show cause and effect:**

- as a result
- consequently
- so
- it follows that
- therefore
- eventually

**If you want to add emphasis:**

- in fact
- of course
- truly
- even
- indeed

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

Peer Review Argument Essay Checklist

Paragraph 1 Introduction	1. Hook _____ 2. Thesis _____
Paragraph 2 Body Paragraph 1 (Argument)	1. Topic Sentence _____ 2. Text Evidence with a sentence starter - Make sure they used quotation marks! _____ 3. Explain text evidence _____ 4. Text Evidence with a sentence starter - Make sure they used quotation marks _____ 5. Explain text evidence _____ 6. Transition Sentence _____
Paragraph 3 Body Paragraph 2 (Counterargument)	1. Topic Sentence _____ 2. Text Evidence with a sentence starter - Make sure they used quotation marks and referred to the other side _____ 3. Explain text evidence (of the other side) _____ 4. Text Evidence with a sentence starter - Make sure they used quotation marks and transitioned back to their side of the argument) _____ 5. Explain text evidence _____ 6. Transition Sentence _____
Paragraph 4 Conclusion	1. Restated Hook _____ 2. Thesis _____ 3. Final thought about your argument _____
Transition Words	1. Used at least 2 transition words _____
CUPS/ARMS	1. Reread my buddy's essay using the CUPS/ARMS checklist to revise and edit _____
Rubric	1. I have read the ENTIRE rubric making sure my buddy can score the most possible points! _____ 2. I have completed the ENTIRE checklist above and they are ready to submit! _____

# Revise

With your ears



## ARMS

# Edit

With your eyes



## CUPS

vs.

# A

Add-  
sentences  
and words

# R

Remove-  
words or  
sentences

# M

Move-  
change a  
word or  
placement of  
a sentence

# S

Substitute-  
trade words  
or sentences  
for new ones

# C

Capitalize-  
names, places,  
titles, months,  
etc.

# U

Usage-  
nouns and verbs  
are correctly  
used

# P

Punctuation-  
Periods, quotes,  
commas,  
semicolons,  
apostrophes,  
etc.

# S

Spelling-  
check all words,  
look for homo-  
phones, use a  
dictionary