Helping With Math

Understanding Fractions

GRADE 3

Fraction can be defined as a numerical quantity that is not a whole number. In layman's term, it can be simply denoted as a representation of a part of a whole; describes how many parts of a certain size there are.

Hi! I'm CJ, one of the owners of C&M Cafe. In our shop, we sell pastries such as one whole cake. Can you divide the cake into 8 equal pieces?

FRACTION

- It represents equal parts of a whole or a collection
- FRACTION OF A WHOLE: division of a whole into equal parts

PARTS OF A FRACTION

NUMERATOR
It tells the number of equal parts taken

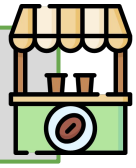
2

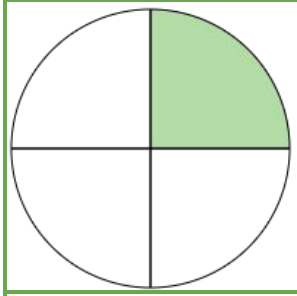
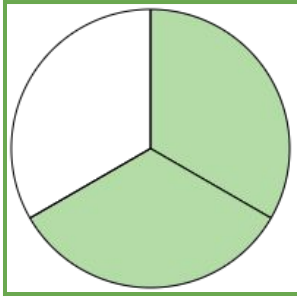
4

It tells the total number of equal parts in a whole

DENOMINATOR

HOW TO NAME FRACTIONS FROM PICTURES



Wholes divided into equal parts	Number of shaded parts	Total or whole number of parts	*FRACTION*
	1	4	$\frac{1}{4}$
	2	3	$\frac{2}{3}$

NUMERATOR

Number of shaded part or portion

DENOMINATOR

Number of divided parts: the whole number of parts

HOW TO NAME FRACTIONS FROM PICTURES

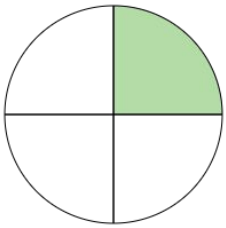
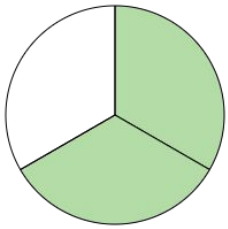
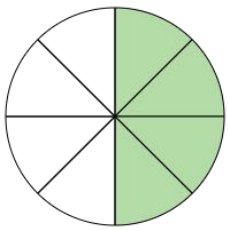
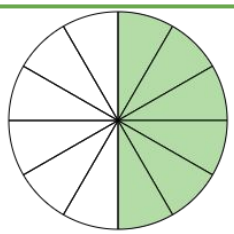
Wholes divided into equal parts	FRACTION	NAME OF FRACTION
	$\frac{1}{4}$	One-fourth
	$\frac{2}{3}$	Two-thirds
	$\frac{\quad}{\quad}$	
	$\frac{\quad}{\quad}$	

TABLE OF ACTIVITIES

1. C&M Cafe's Opening
2. C&M's Product Offers
3. Cafe Menu
4. Cafe Latte or Cafe Mocha?
5. C&M Cafe's Crew and Staff
6. Morning Ice Coffee
7. Getting Espresso
8. C&M Cafe's Anniversary
9. Now Hiring!
10. Cafe Journal

C&M CAFE'S OPENING

It's C&M Cafe's grand opening day! The first 5 persons in the line gets free coffee. Help 5 people to get their free coffee by connecting the concepts with its corresponding definition. Draw a line to connect.

1. FRACTION

2. NUMERATOR

3. DENOMINATOR

4. FRACTION BAR

5. FRACTION OF A WHOLE

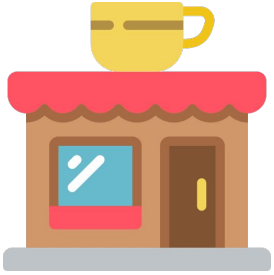
A. Line that separates the numerator from the denominator

B. Represent equal parts of a whole

C. Division of a whole into equal parts

D. Tells the number of equal parts taken

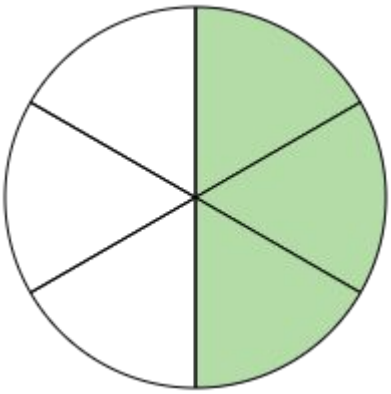
E. Tells the total number of equal parts in a whole



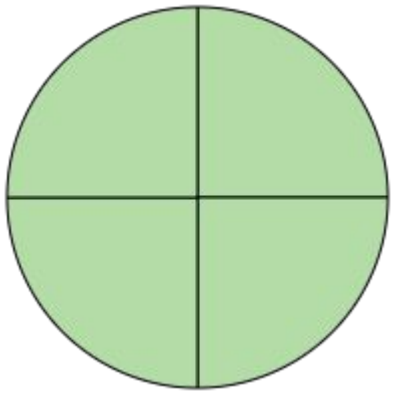
C&M PRODUCT OFFERS

Help Grace to name her products for the cafe! Write the fraction name based on the shaded shapes.

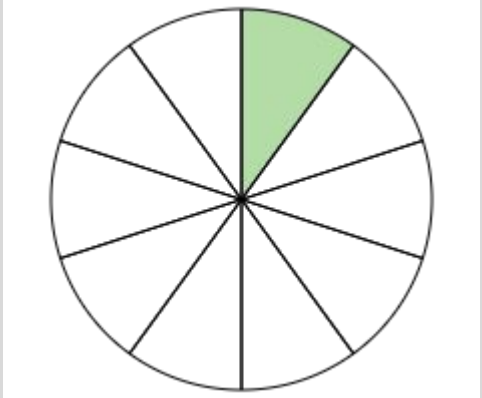
1.



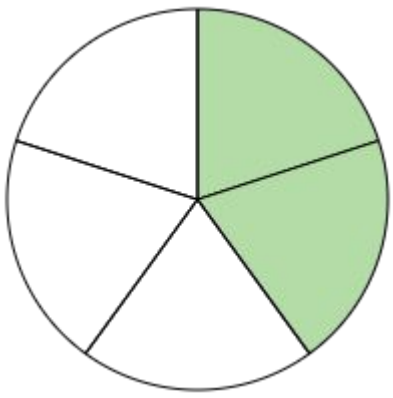
2.



3.



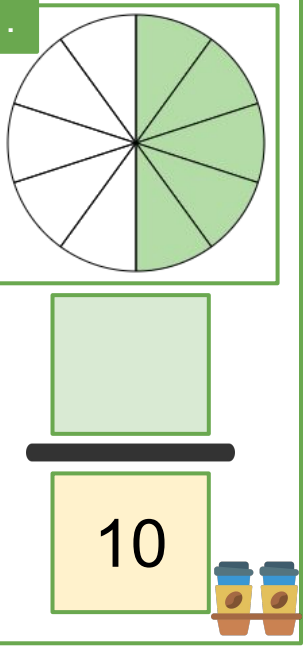
4.



C&M MENU

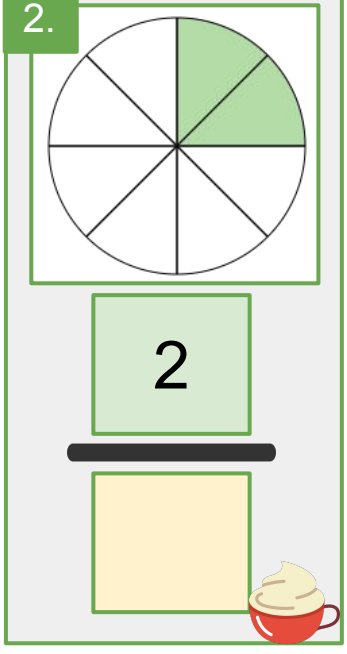
Here is the official menu for C&M cafe! Fill in the missing numerator or denominator based on the given shape to complete the fraction.

1.



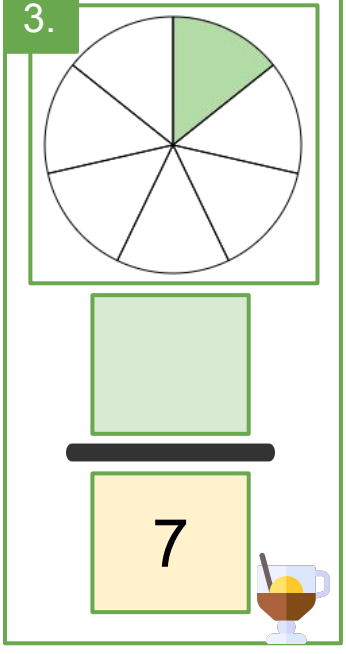
$\frac{\square}{10}$

2.



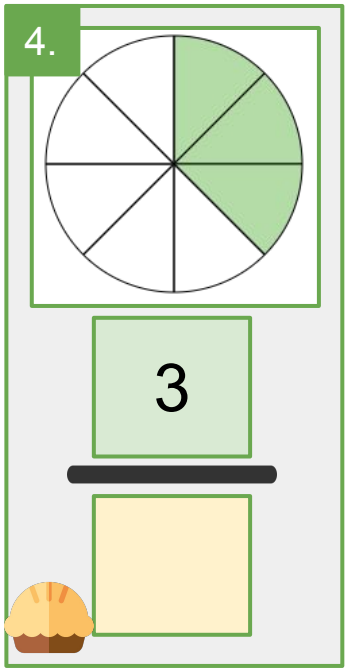
$\frac{2}{\square}$

3.



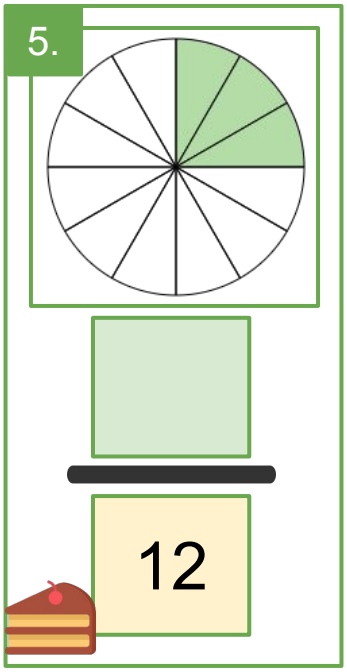
$\frac{\square}{7}$

4.



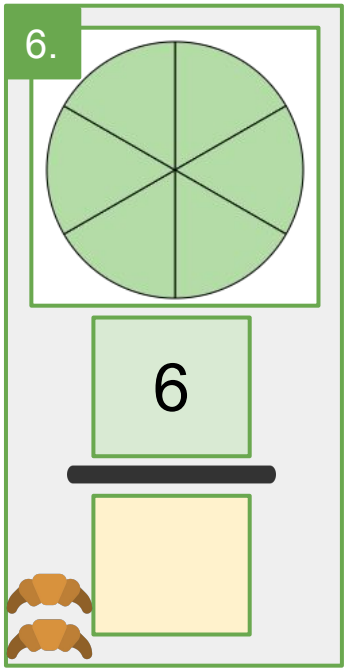
$\frac{3}{\square}$

5.



$\frac{\square}{12}$

6.

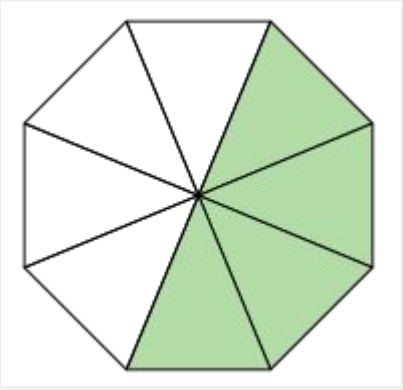


$\frac{6}{\square}$

CAFE LATTE OR CAFE MOCHA?

Help Mary to choose between C&M's best sellers, cafe latte and cafe mocha! Pick the right drink out of the given choices below. Put a check on your answer.

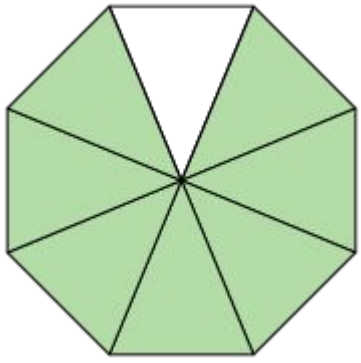
1.



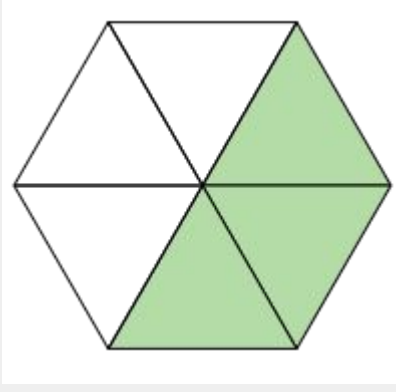
$\frac{4}{8}$ $\frac{3}{5}$

2.

$\frac{1}{8}$ $\frac{7}{8}$



3.

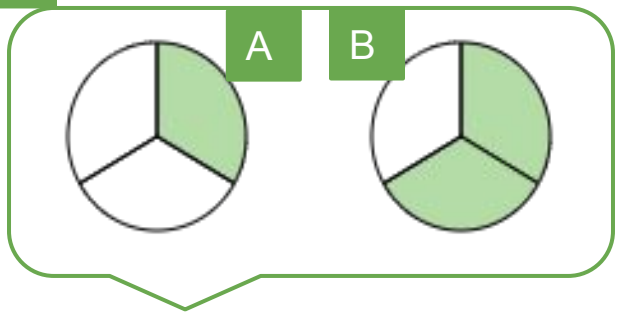


$\frac{6}{3}$ $\frac{3}{6}$

C&M CAFE'S CREWS AND STAFFS

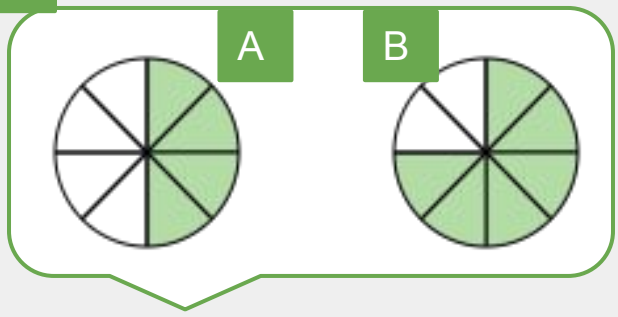
Meet the crew and staff of C&M Cafe! Encircle the shape that shows the given fraction.

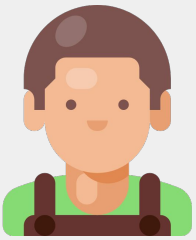
1.



$\frac{1}{3}$

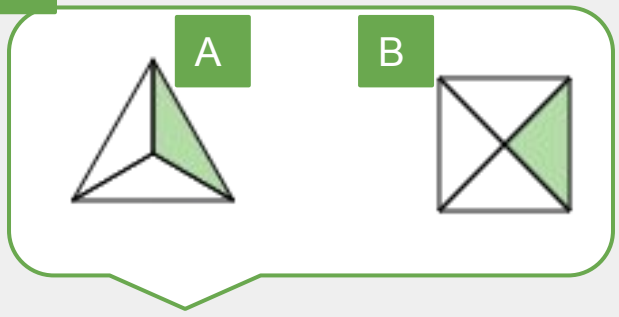
2.

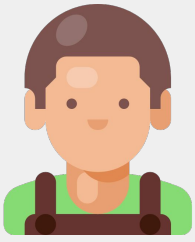




$\frac{4}{8}$

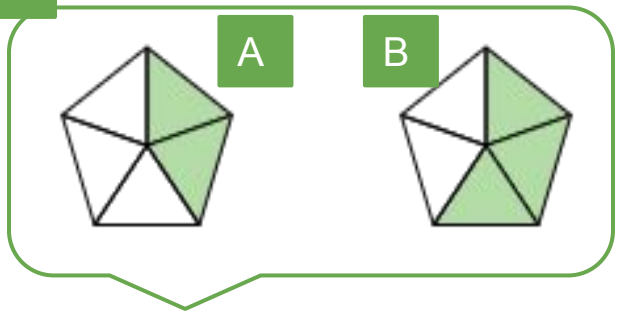
3.





$\frac{1}{4}$

4.

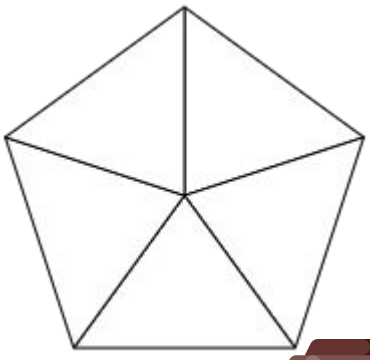


$\frac{2}{5}$

MORNING ICED COFFEE

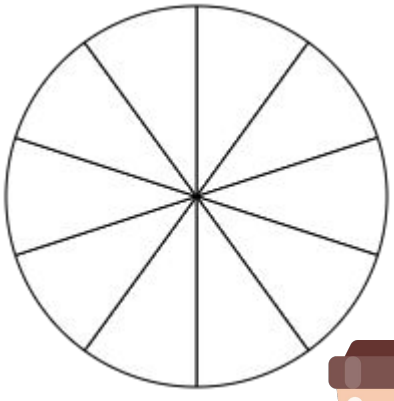
Color your morning with iced coffee! Color each shape that shows and reflects each fraction equation.

1.



$\frac{3}{5}$

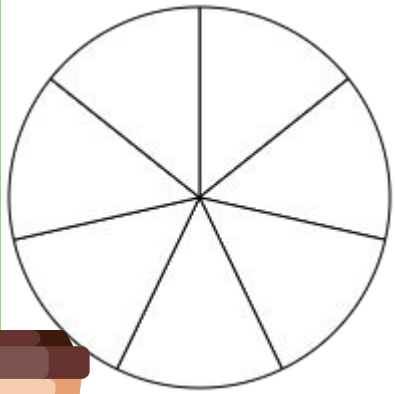
2.



$\frac{4}{10}$

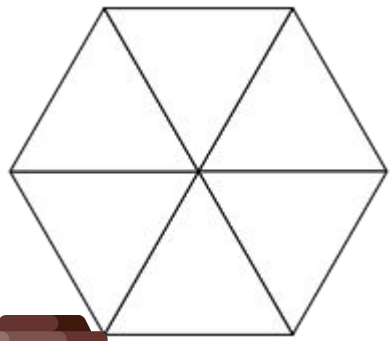
3.

$\frac{3}{7}$



4.

$\frac{5}{6}$

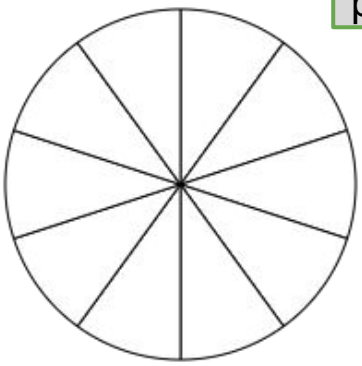


GETTING ESPRESSO

Help Marcus to get espresso at C&M cafe! Follow the instructions in each given then answer the following questions.

2.

Color 3 parts blue. Color 5 parts pink.



What fraction of the circle is pink?

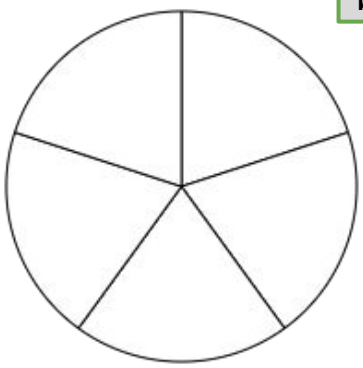
A

What fraction of the circle is not colored?

B

1.

Color 2 parts yellow. Color 2 parts blue. Color 1 part red.



A What fraction of the circle is yellow?

What fraction of the circle is red?

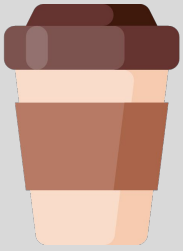
B

C&M CAFE'S ANNIVERSARY

It's the cafe's anniversary! Read the problems and answer the questions. Write your answers in fraction form.

1.

THE COFFEE GIVEAWAY



The C&M baristas made 6 coffee.

Barista #1 gave 2 coffee to lucky customers. What fraction of coffee drinks did she give?

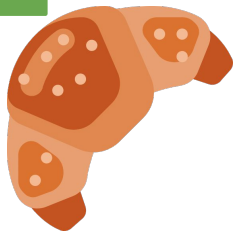
A

Barista #2 gave 4 coffee to lucky customers. What fraction of coffee drinks did he gIve?

B

2.

THE FRESH CROISSANT



The C&M bakers made 12 croissants.

Baker # 1 gave 4 croissants to street children. What fraction of the products did he gIve?

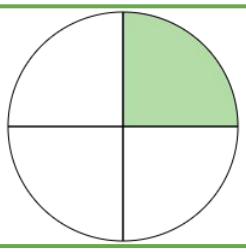
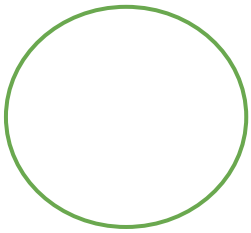
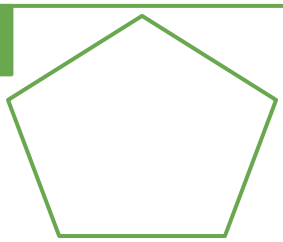
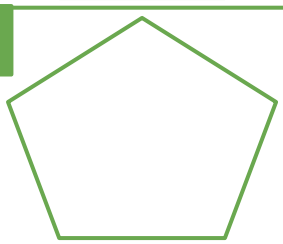
A

Baker #2 gave the rest of the croissants to other street children. What fraction of the products did she give?

B

NOW HIRING!

The cafe is now looking for additional workers! Show your skills by providing your own given fraction. The shapes are already provided for you. It's up to you how many parts you make. Don't forget to shade some parts! The first one is done for you as your sample.

Wholes divided into equal parts	FRACTION	NAME OF FRACTION
	$\frac{1}{4}$	One-fourth
1. 		
2. 		
3. 		

C&M JOURNAL

C&M cafe will be featured in a journal! Simply answer the following questions and explain if necessary.

Is understanding fraction easy, average, or difficult for you? Why?

_____

_____

_____

_____

1.

How can you apply fraction in real life? Cite one way and explain.

_____

_____

_____

_____

2.

ANSWER GUIDE

Activity 1

1. B
2. D
3. E
4. A
5. C

Activity 2

1. Three-sixths
2. Four-fourths
3. One-tenths
4. Two-fifths

Activity 3

1. 5
2. 8
3. 1
4. 8
5. 3
6. 6

Activity 4

1. 4/8
2. 7/8
3. 3/6

ANSWER GUIDE

Activity 5

1. A
2. A
3. B
4. A

Activity 6

1. 3 parts should be shaded
2. 4 parts should be shaded
3. 3 parts should be shaded
4. 5 parts should be shaded

Activity 7

1. A: 2/5
   B: 1/5

2. A: 5/10
   B: 2/10

Activity 8

1. A: 2/6
   B: 4/6

2. A: 4/12
   B: 8/12

Activity 9

The answers may vary as the activity is subjective.

Activity 10

The answers may vary as the activity is subjective.

Copyright Notice

This resource is licensed under the Creative Commons Attribution-NonCommercial 4.0 International license.

You are free to:

- **Share** — copy and redistribute the material in any medium or format
- **Adapt** — remix, transform, and build upon the material

Under the following terms:

- **Attribution** — You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.
- **NonCommercial** — You may not use the material for commercial purposes.

For more information on this license, visit the following link:

http://creativecommons.org/licenses/by-nc/4.0/

Where possible, free-use images are sourced from online repositories such as Wikipedia and Wikimedia Commons. References and sources for images are provided in the speaker notes section of this document.

Thank you!

Thank you

Thank you so much for purchasing and downloading this resource.

We hope it has been useful for you in the classroom and that your students enjoy the activities.

For more teaching and homeschooling resources like this, don't forget to come back and download the new material we add every week!

Thanks for supporting **Helping With Math**. We can provide teachers with low-cost, high-quality teaching and homeschooling resources because of our loyal subscribers and hope to serve you for many years to come.

- The Entire Helping With Math Team :)