



2nd Basic  
3rd Advanced

# Helping With Math

USA GRADES

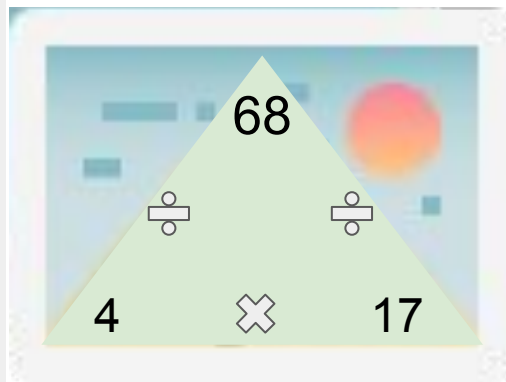
## Fact Families for Multiplication and Division

*Suitable for students aged 6-8*



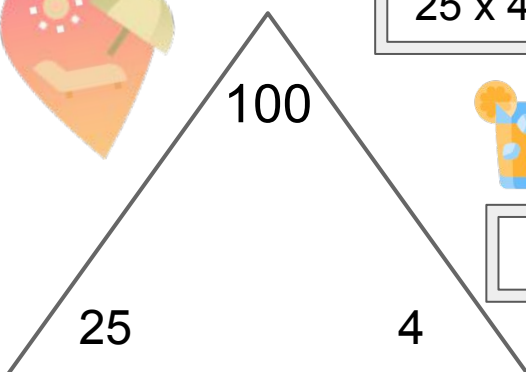
This pack is suitable for learners aged 6-8 years old or 2nd to 3rd grades (USA). The content covers fact files and relevant basic and advanced activities involving fact families for multiplication and division.

**Fact family** is a collection of related multiplication and division facts made from the same numbers.



For the numbers 4, 17, and 68 written on the triangle, the multiplication and division fact family consist of:

- $4 \times 17 = 68$
- $17 \times 4 = 68$
- $68 \div 4 = 17$
- $68 \div 17 = 4$



$$25 \times 4 = 100$$



$$4 \times 25 = 100$$



$$100 \div 25 = 4$$

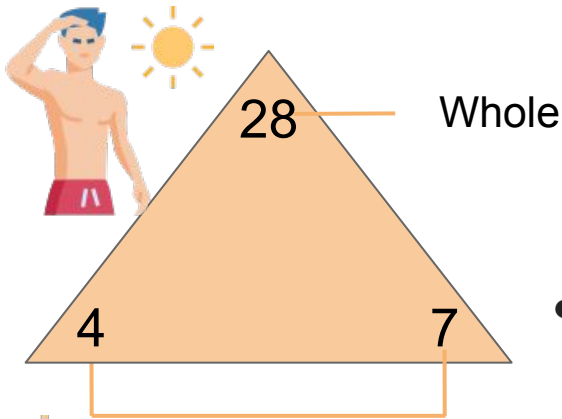


$$100 \div 4 = 25$$



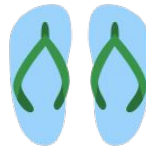
# CONCEPTS

## FACT FAMILY RULES FOR MULTIPLICATION / DIVISION



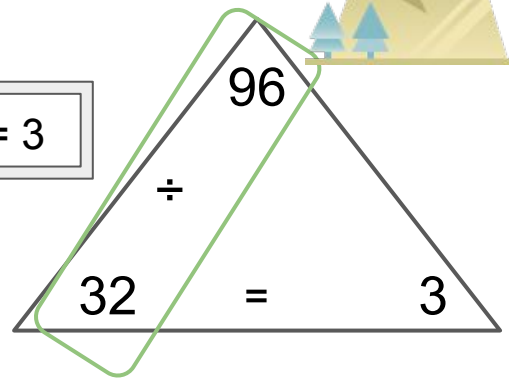
- Two smaller numbers on multiplication should give the larger number.

- Dividing bigger numbers by the smaller number should give the other smaller number of the family.

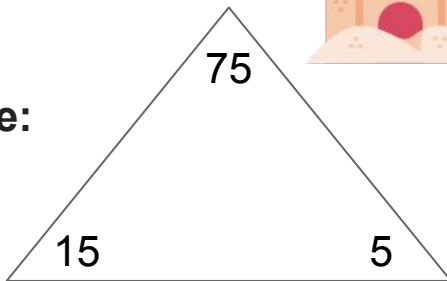


- The bigger number, when a small number is divided from it, should give the other small number.

$$96 \div 32 = 3$$



Example:

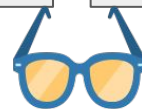


$$15 \times 5 = 75$$

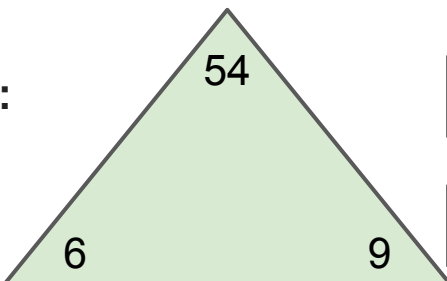
$$75 \div 15 = 5$$

$$5 \times 15 = 75$$

$$75 \div 5 = 15$$



Try this:



$$6 \times \underline{\quad} = 54$$

$$54 \div \underline{\quad} = 6$$

$$9 \times \underline{\quad} = 54$$

$$54 \div \underline{\quad} = 9$$



# TABLE OF ACTIVITIES

<b>Ages 6-7 (Basic)</b>		<u>2nd Grade</u>
1	Feel the Heat	
2	Meet the Flamingos	
3	Let's Go to the Beach	
4	Beat the Summer Heat	
5	Chillin this Summer	
<b>Ages 7-8 (Advanced)</b>		<u>3rd Grade</u>
6	Summer Foods	
7	Hot Weather Errand	
8	Surfing Time	
9	Hotel and Boards	
10	Summer Trip	



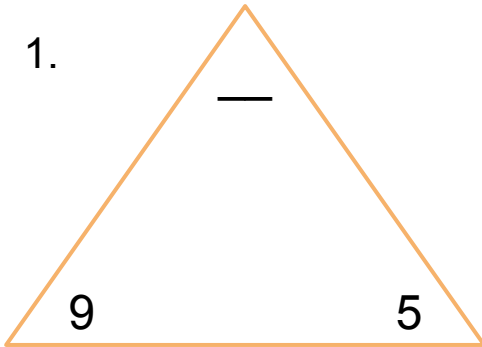
# FEEL THE HEAT

G2

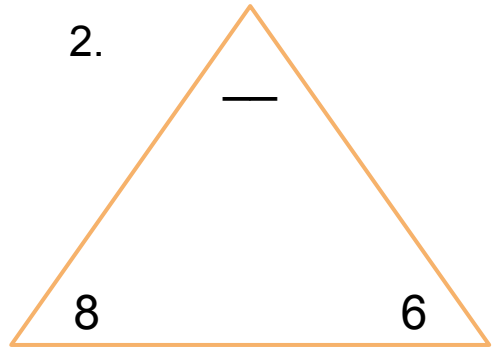
Basic

Feel the heat of the summer season as you complete the given fact family triangles.

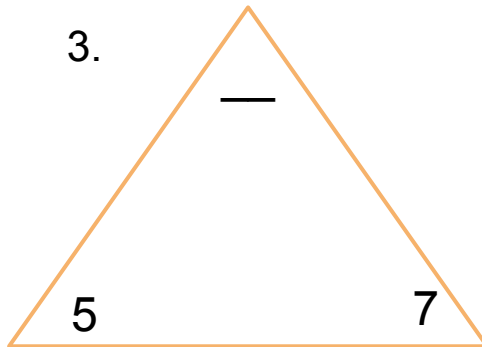
1.



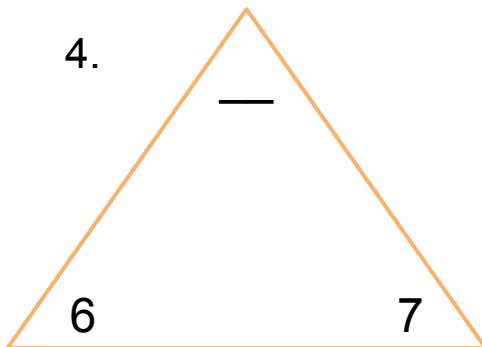
2.



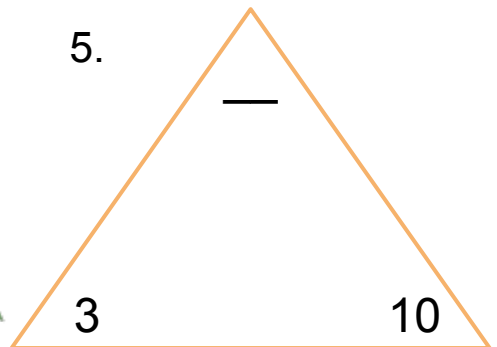
3.



4.



5.



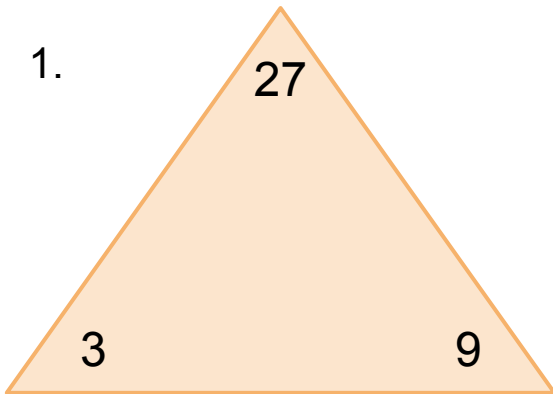
# MEET THE FLAMINGOS

G2

Basic

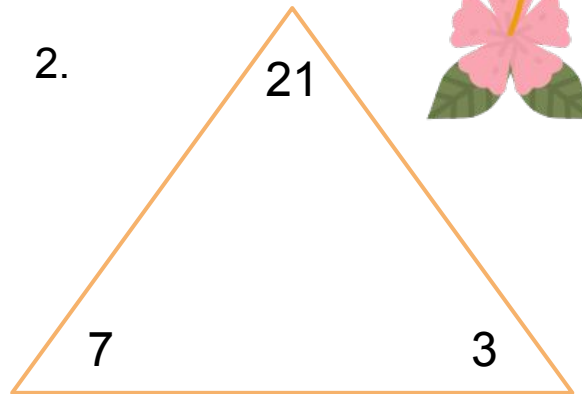
Flamingos like hot weather. Meet these lovely animals by completing the mathematical sentences below using the fact family triangles.

1.



$$27 \div \underline{\quad} = 3$$

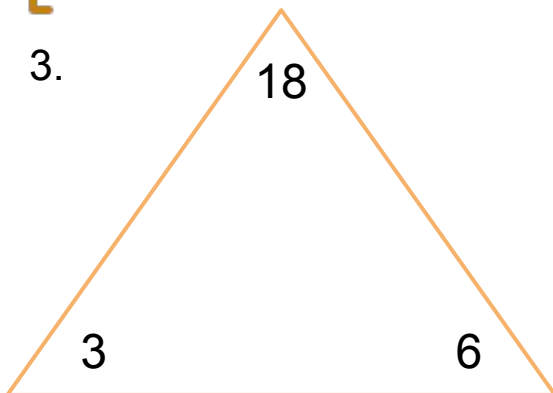
2.



$$21 \div 3 = \underline{\quad}$$

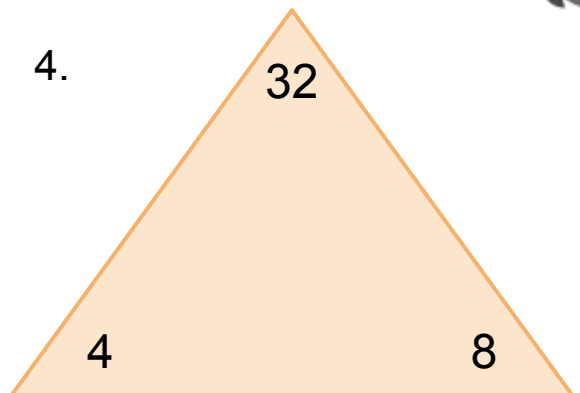


3.



$$18 \div 6 = \underline{\quad}$$

4.



$$32 \div \underline{\quad} = 4$$



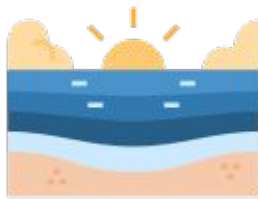
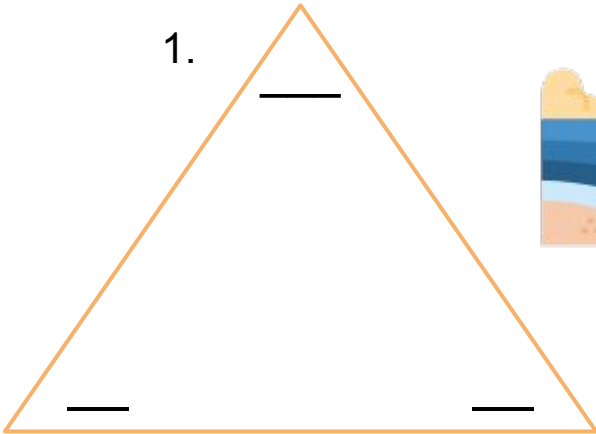
# LET'S GO TO THE BEACH

G2  
Basic

It's summertime! This means beach time! Experience sea breeze by accomplishing the fact family triangle. Use the number sentence as your guide.

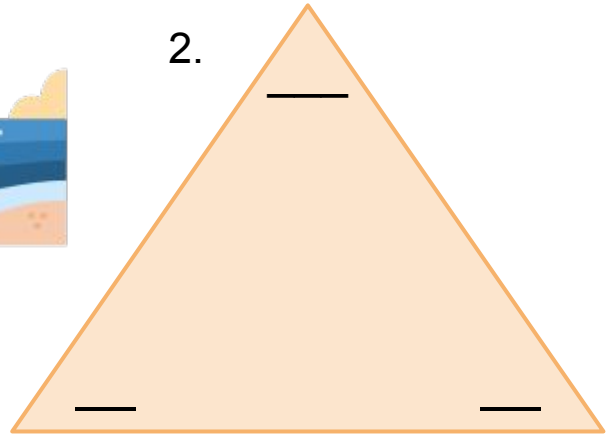
$$7 \times 4 = 28$$

1.



$$20 \div 4 = 5$$

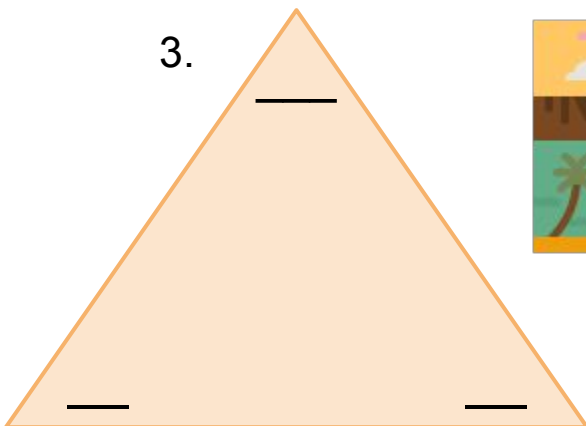
2.



BEACH

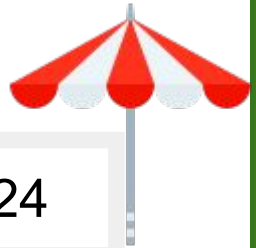
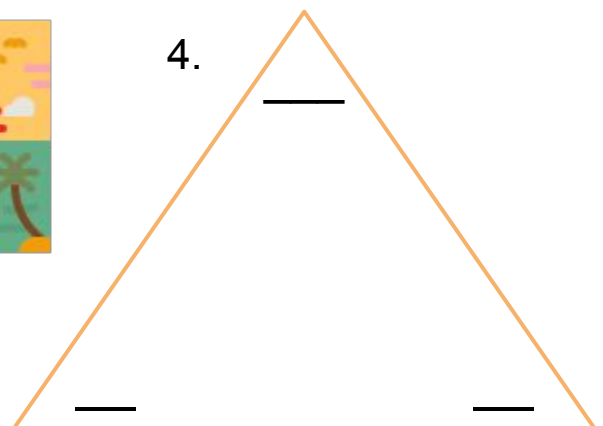
$$27 \div 9 = 3$$

3.



$$4 \times 6 = 24$$

4.



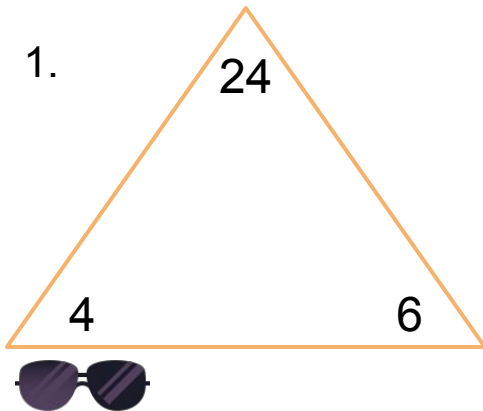
# BEAT THE SUMMER HEAT

G2

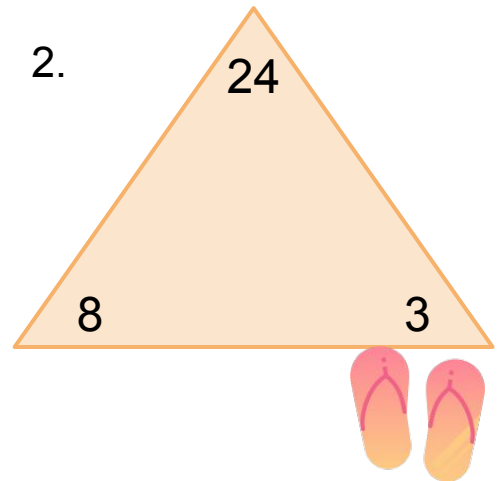
Basic

Beat the summer heat by doing some math tasks! Cut and paste the multiplication and division sentence that is being shown on the fact family triangle.

1.



2.



$$24 \div 3 = 8$$

$$24 \div 8 = 3$$

$$24 \div 6 = 4$$

$$6 \times 4 = 24$$

$$24 \div 4 = 6$$

$$3 \times 8 = 10$$

$$4 \times 6 = 24$$

$$8 \times 3 = 10$$



# CHILLIN THIS SUMMER

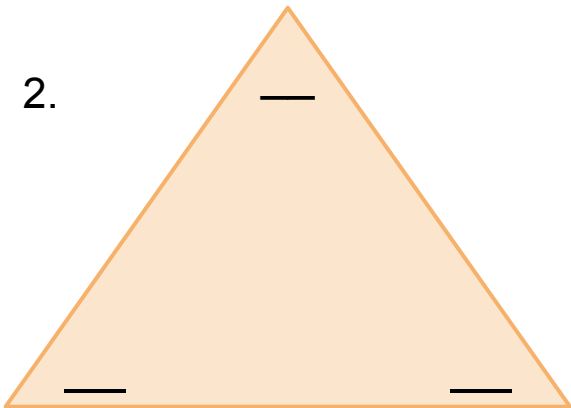
G2  
Basic

The following situations are common during summer. Use your understanding about Fact Families as you complete the multiplication and division fact family.

The Seashore Shop sold twelve watermelons yesterday. Today, they sold three times than that. How many watermelons does the shop sell in total?



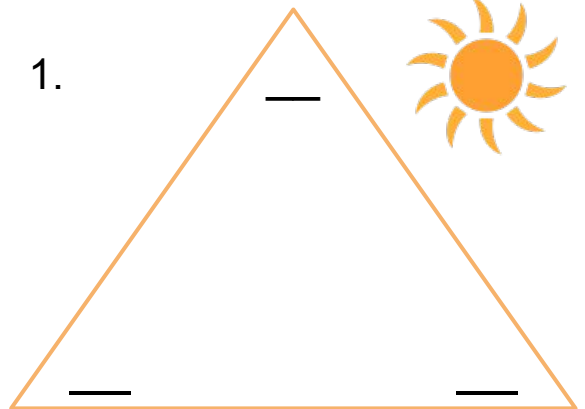
2.



$$\square \times \square = \square$$

$$\square \div \square = \square$$

1.



$$\square \times \square = \square$$

$$\square \div \square = \square$$



Ashley begins to sell ice cream for Summer. She sold eleven chocolate-flavored ice cream on Friday. On Saturday, she sold twice than that. How many ice cream does she sell in total?

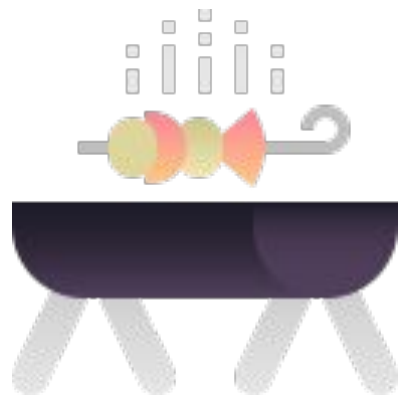
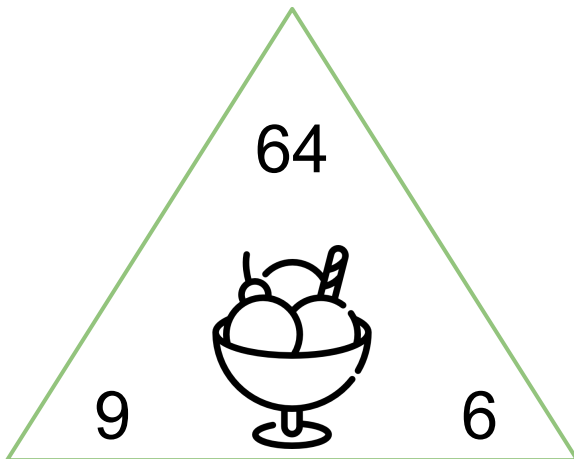
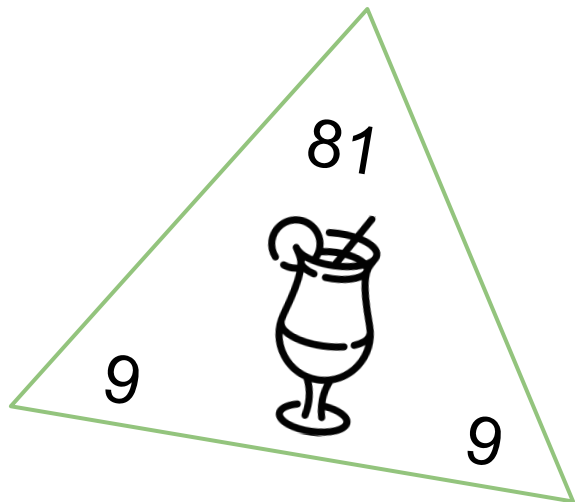
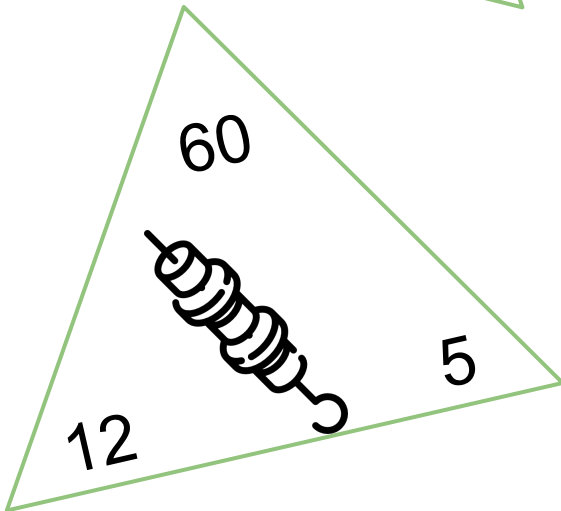
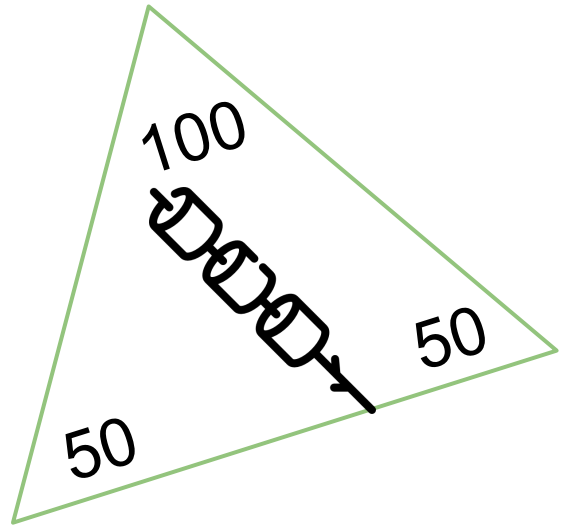
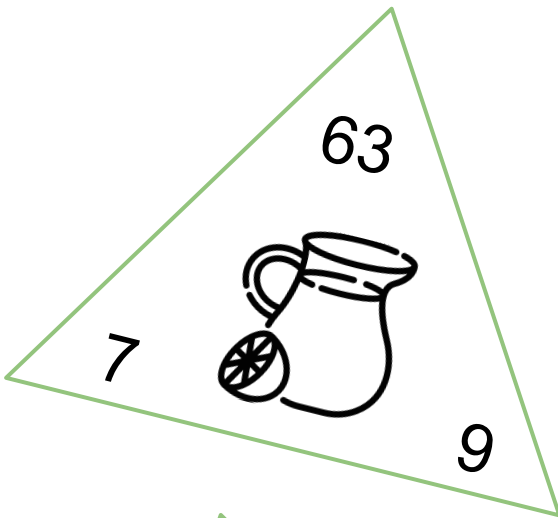




# SUMMER FOODS

G3  
Advanced

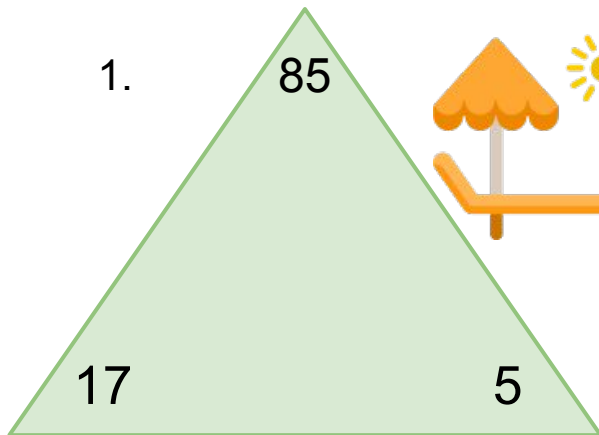
Color the Summer foods that shows the correct fact family triangle.



# HOT WEATHER ERRAND

G3  
Advanced

Get busy with some errand as you fill in the missing numbers using the fact family triangle. Afterward, write the multiplication or division sentence in words.



$$\square \div \square = \square$$

---

---

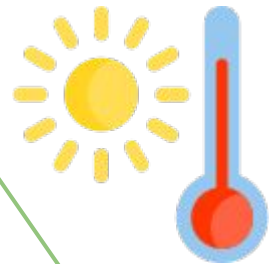
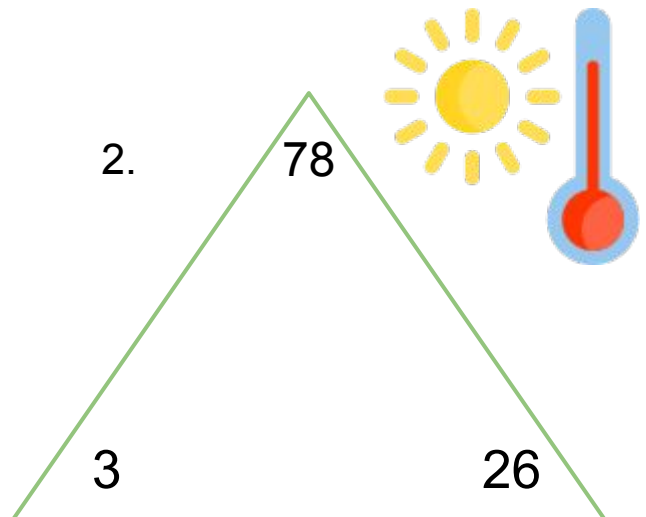
---

$$\square \times \square = \square$$

---

---

---

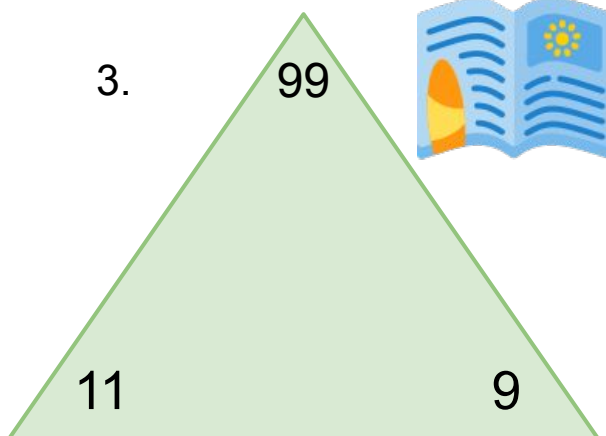


$$\square \div \square = \square$$

---

---

---



# SURFING TIME

G3  
Advanced

Shake off the hot weather by surfing. Get a free surfing experience by using the given numbers to form the four fact family equations.

1.

90

3

30

$$\square \times \square = \square$$

$$\square \times \square = \square$$

$$\square \div \square = \square$$

$$\square \div \square = \square$$

2.

90

10

9

$$\square \times \square = \square$$

$$\square \times \square = \square$$

$$\square \div \square = \square$$

$$\square \div \square = \square$$



# HOTEL AND BOARDS

G3  
Advanced

Refer to the given below and apply your knowledge of creating multiplication or division sentence. Use the situation below to write them.

1. This Summer, the Beach hotel has twenty-five tourists. Each room can accommodate four people. How many rooms are open for the tourists?



-----

-----

-----

-----

2. John the surfer donated surfing boards for the Summer season. She donated sixty-five boards and there will be thirteen beach beneficiaries for these. How many surfing boards will he be donating to each beach?



-----

-----

-----

-----



# SUMMER TRIP

G3  
Advanced

Enjoy the Summer trip by solving each math task. Underline the letter of your choice.



1. What number should go in the blank to make the number sentence true?  $4 \times \underline{\quad} = 68$

- A 15                      C 17  
B 16                      D 18

2. Three of the number sentences do not belong to the same fact family. Which one is exempted?

- A  $72 \times 6 = 48$                       C  $6 \times 12 = 18$   
B  $72 \times 12 = 86$                       D  $6 \times 12 = 72$



3. The lifeguard used  $100 \div 5 = 20$  to solve a different problem. Which of the following could be the problem he was trying to solve?

- A  $100 \times 5 = \underline{\quad}$                       C  $20 \div \underline{\quad} = 5$   
B  $100 \times 20 = \underline{\quad}$                       D  $5 \times \underline{\quad} = 100$



4. What number should go in the blank to make the number sentence true?  $92 \div \underline{\quad} = 2$

- A 43                      C 45  
B 44                      D 46



# ANSWER GUIDE

## Activity 1

1. 45
2. 48
3. 35
4. 42
5. 30

## Activity 3

1.  $28 \div 7 = 4$
2.  $4 \times 5 = 20$
3.  $9 \times 3 = 27$
4.  $24 \div 4 = 6$

## Activity 5

1.  $12 \times 3 = 36$   
 $36 \div 12 = 3$   
or vice versa
2.  $11 \times 2 = 22$   
 $22 \div 11 = 2$

## Activity 7

1.  $85 \div 17 = 5$  : Eighty-five divided by seventeen is equal to five
2.  $3 \times 26 = 78$ : Three times twenty-six is equal to seventy-eight or vice versa
3.  $99 \div 9 = 11$  : Ninety-nine divided by nine is equal to eleven or vice versa

## Activity 10

1. C
2. D
3. D
4. D

## Activity 2

1. 9
2. 7
3. 3
4. 8

## Activity 4

1.  $24 \div 6 = 4$   
 $24 \div 4 = 6$   
 $6 \times 4 = 24$   
 $4 \times 6 = 24$
2.  $24 \div 3 = 8$   
 $24 \div 8 = 3$   
 $8 \times 3 = 24$   
 $3 \times 8 = 24$

## Activity 6

$$7 \times 9 = 63 ; 12 \times 5 = 60 ; 9 \times 9 = 81$$

## Activity 8

1.  $3 \times 30 = 90$ ;  $30 \times 3 = 90$   
 $90 \div 30 = 3$ ;  $90 \div 3 = 30$
2.  $10 \times 9 = 90$ ;  $9 \times 10 = 90$   
 $90 \div 10 = 9$ ;  $90 \div 9 = 10$

## Activity 9

1. Twenty-five times four is equal to one hundred
2. Sixty-five divided by thirteen is equal to five or vice versa



# Copyright Notice

This resource is licensed under the [Creative Commons Attribution-NonCommercial 4.0](https://creativecommons.org/licenses/by-nc/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 :)

