



Helping With Math

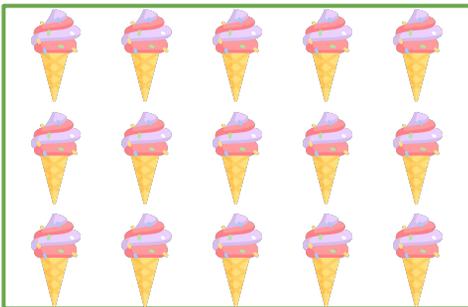
Understanding Division as Repeated Subtraction



GRADE 3



Division can be defined as the action of separating something (an object or numerical value) into parts. In layman's term, it is simply the process of being separated. With the notion of division, repeated subtraction can be also one way of performing the said operation as its nature is almost the same.



Hi! I am Joy, the ice cream vendor at Etoile beach. I have 15 pieces ice cream. How many group of 3 ice creams in each can be formed?



REPEATED SUBTRACTION

- ★ It is a method that subtracts the equal number of items from a group



DIVISION AS REPEATED SUBTRACTION



DIVISION AS REPEATED SUBTRACTION



- ❖ It is the method of subtracting the equal number of items from a larger group. It is also known as division.



DEFINITION

If the same number is repeatedly subtracted from another larger number until the remainder is zero or a number smaller than the number being subtracted, it can be written in the form of division.



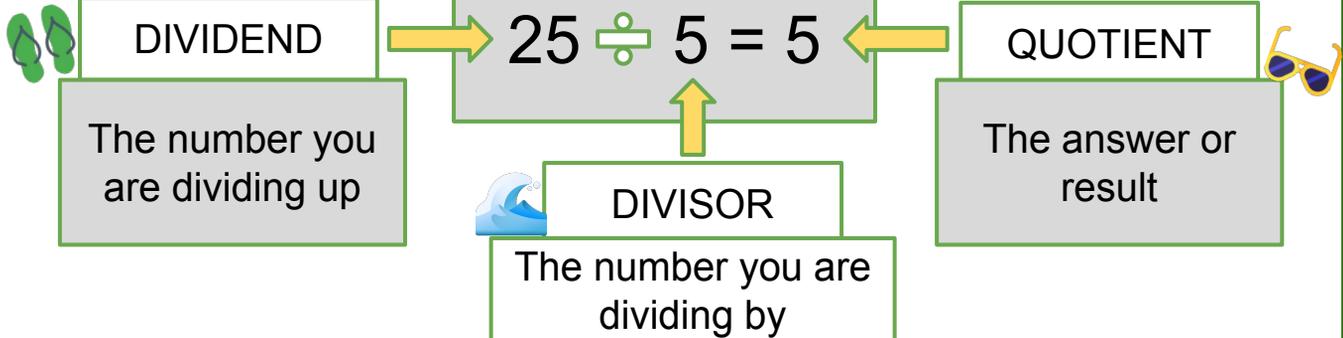
There are 25 balls. Let us form a group of 5 balls each.

$$\begin{aligned} 25 - 5 &= 20 - 5 = 15 - 5 = 10 - 5 \\ &= 5 - 5 = 0 \\ 25 \div 5 &= 5 \end{aligned}$$

EXAMPLE



PARTS OF A DIVISION SENTENCE



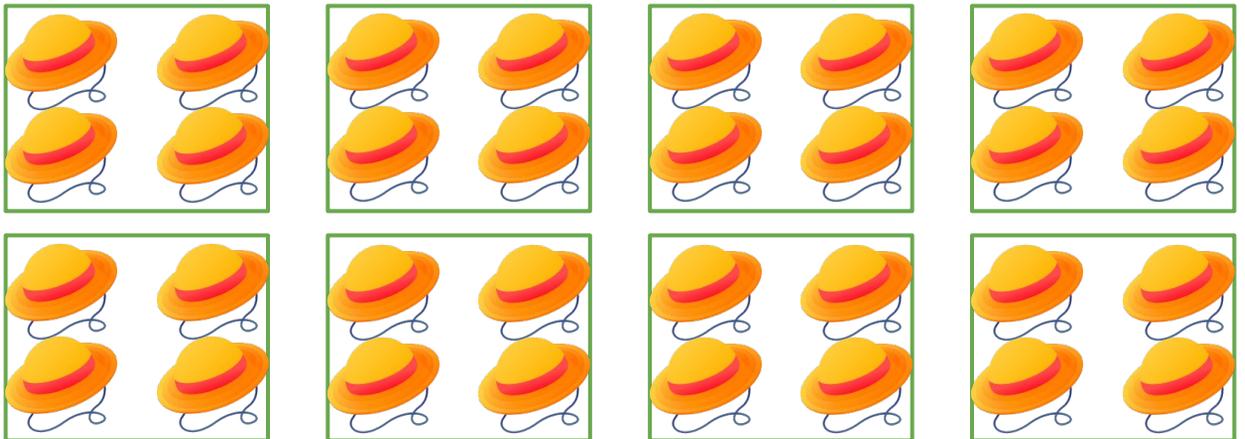
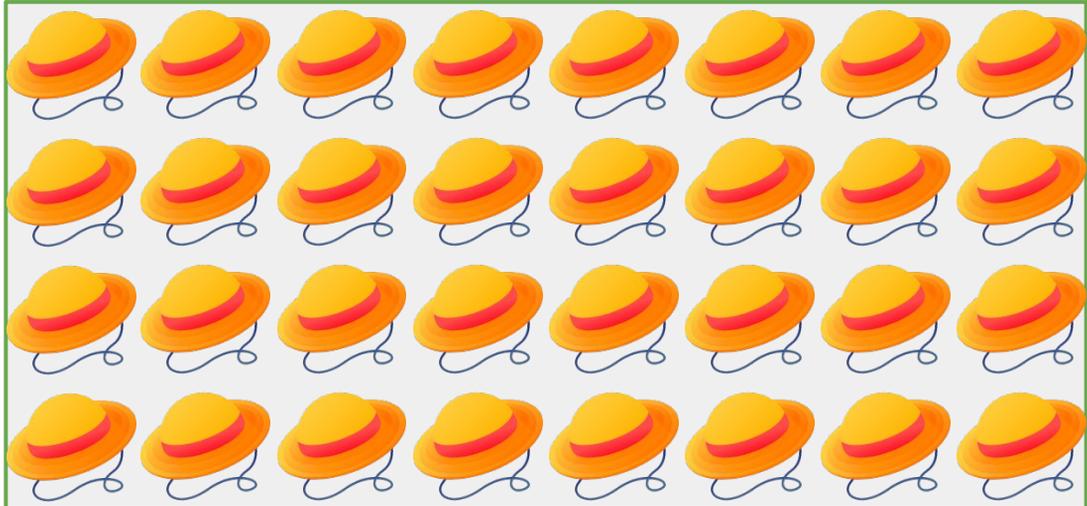
DIVISION AS REPEATED SUBTRACTION



EXAMPLE



There are 32 hats. How many groups of 4 hats can be formed?



$$32 - 4 = 28 - 4 = 24 - 4 = 20 - 4 = 16 - 4 = 12 - 4 = 8 - 4 = 4 - 4 = 0$$



DIVISION AS REPEATED SUBTRACTION



EXERCISE



There are 30 suns. How many groups of 5 suns can be formed?

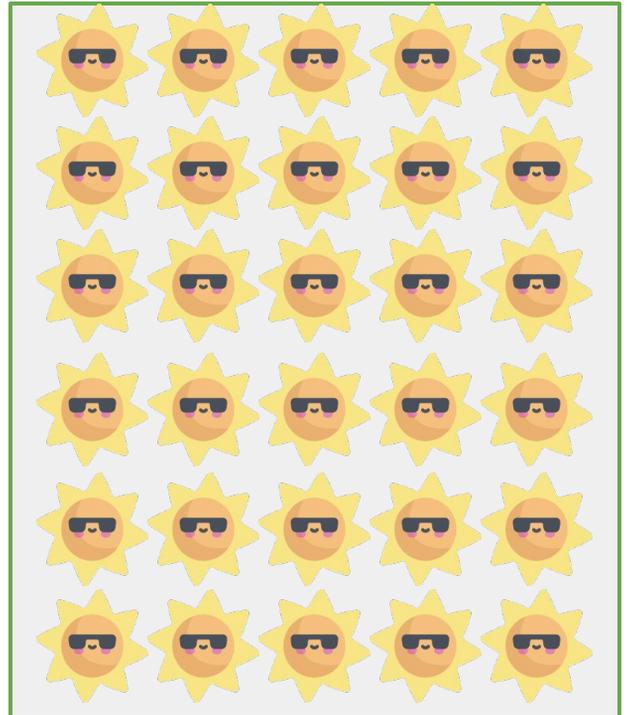
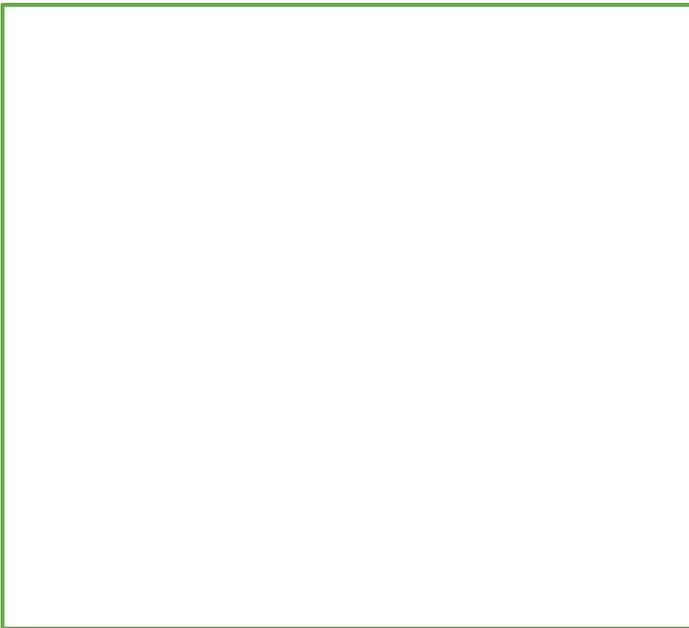


TABLE OF ACTIVITIES

1. Riding the Waves
2. Slice of Summer
3. Summer Getaway
4. Beach Glance
5. Fun under the Sun
6. Summer Feels
7. Barefootin'
8. Beach Please
9. Beach Baby
10. Cool Days of Summer



RIDING THE WAVES

Help the surfers to get their surfboards! Draw a line from the word on the left side of the page to the phrase that describes the phrase on the right.

1.

DIVISOR



A

It is the answer or result after performing division



2.

DIVIDEND



B

It is the number you are dividing by



3.

QUOTIENT



C

It is the method of subtracting the equal number of items from a larger group



4.

REPEATED SUBTRACTION



D

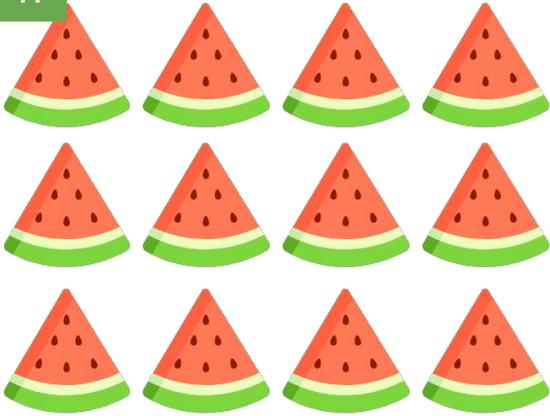
It is the number you are dividing up



SLICE OF SUMMER

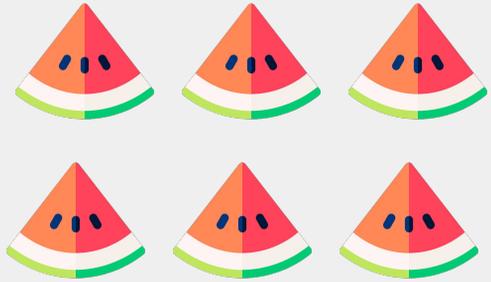
Beat the heat of summertime with slices of watermelon! Complete the division equation to successfully make a division sentence.

1.



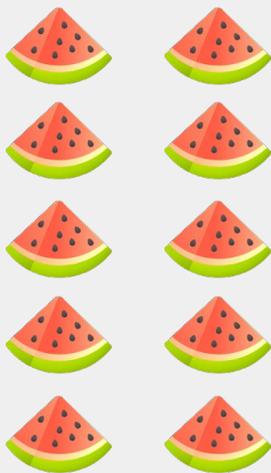
12	÷		=	
----	---	--	---	--

2.



	÷	3	=	
--	---	---	---	--

3.



	÷	2	=	
--	---	---	---	--

4.



6	÷		=	
---	---	--	---	--



SUMMER GETAWAY

It's summer time! Identify the repeated subtraction for each division equation. Write the letter of your answer.

$$18 \div 6$$



1.

$$16 \div 8$$



2.

$$20 \div 4$$



3.

$$16 - 8 = 8 - 8 = 0$$



A

$$16 - 4 = 12 - 4 = 8 - 4 = 4 - 4 = 0$$



B

$$21 - 7 = 14 - 7 = 7 - 7 = 0$$



C

$$18 - 6 = 12 - 6 = 6 - 6 = 0$$



D

$$20 - 4 = 16 - 4 = 12 - 4 = 8 - 4 = 4 - 4 = 0$$



E

$$16 \div 4$$



4.

$$21 \div 7$$



5.



BEACH GLANCE

It is Mary's first time to go to the beach! Help her see the glimpse of the beach by using repeated subtraction to solve the following division problems.

$32 \div 4$



1.

$35 \div 5$



2.

$42 \div 6$



3.

$56 \div 8$



4.



FUN UNDER THE SUN

Mark wants to seize the day under the sun! Support him by writing down the division equation for the following repeated subtraction.

$$8 - 2 - 2 - 2 - 2 = 0$$

1.



$$32 - 8 - 8 - 8 - 8 = 0$$

2.



$$54 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 = 0$$

3.



$$40 - 10 - 10 - 10 - 10 = 0$$

4.



SUMMER FEELS

Summertime is here in a few seconds! You are only given 30 seconds for each flashcards. Solve the following division equations. Write your solution and answer on the space provided.

1.


$$\begin{array}{r} 81 \\ \div \\ 9 \end{array}$$


2.


$$\begin{array}{r} 56 \\ \div \\ 7 \end{array}$$


3.


$$\begin{array}{r} 48 \\ \div \\ 6 \end{array}$$


4.


$$\begin{array}{r} 45 \\ \div \\ 5 \end{array}$$


1.

2.

3.

4.



BAREFOOTIN'

The Smith children really love the fine sand at the beach! Draw an array for each division problem and write the quotient on the answer line provided.

$36 \div 4 = \underline{\quad}$

$45 \div 5 = \underline{\quad}$

$36 \div 6 = \underline{\quad}$

1.



2.



3.



$56 \div 7 = \underline{\quad}$

$64 \div 8 = \underline{\quad}$

$72 \div 9 = \underline{\quad}$



4.



5.



6.

Understanding Division as Repeated Subtraction



BEACH PLEASE

Two people really miss the beach! Help them to get into the beach by solving the following problems using repeated subtraction. Write also your complete answer.

Ms. Franklin has 25 cocktail juices. Each day she gives out 5 juices to visitors. How many days can she give out cocktail juices?



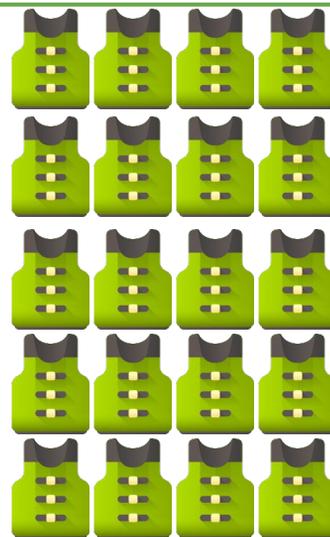
1.



Ryan has 20 life jackets to put away. 4 jackets will fit on one cabinet. How many cabinet does he need?



2.



BEACH BABY

Sam enjoys swimming! Help him show his fondness by writing your own given and solve then using the space provided. Use division and repeated subtraction for your solution.

1.



2.

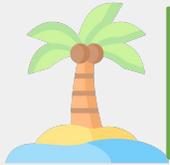


3.



COOL DAYS OF SUMMER

Time to write your experiences and learning this summer season. Simply answer the questions below.



Is the topic about division as repeated subtraction easy, average, or difficult for you to understand? Why?



1.



Is repeated subtraction really helped you in understanding division better? Why and how?



2.



ANSWER GUIDE

Activity 1

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

Activity 2

1. 4, 3
2. 6, 2
3. 10, 5
4. 6, 1

Activity 3

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

Activity 4

1. $32-4=28-4=24-4=20-4=16-4=12-4=8-4=4-4=0$
2. $35-5=30-5=25-5=20-5=15-5=10-5=5-5=0$
3. $42-6=36-6=30-6=24-6=18-6=12-6=6-6=0$
4. $56-8=48-8=40-8=32-8=24-8=16-8=8-8=0$



ANSWER GUIDE

Activity 5

1. $8 \div 2$

2. $32 \div 8$

3. $54 \div 6$

4. $40 \div 10$

Activity 6

1. 9

2. 8

3. 8

4. 9

Activity 7

1. 9

2. 9

3. 6

4. 8

5. 8

6. 8

Activity 8

1. $25-5=20-5=15-5=10-5=5-5=0$

2. $20-4=16-4=12-4=8-4=4-4=0$

Activity 9

The answers may vary as it is a subjective type of activity.

Activity 10

The answers may vary as it is a subjective type of activity.



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