

Translating Word Problems

What does the word **translate** mean to you?



How do you identify a math **word problem**?

Identify the word problem below:

a.) $25 + 3(4-2) =$

b.) I paid \$0.25 for each folder. I bought 5 folders. How much money did I spend?

When to add:

- combined
- together
- rose
- climbed
- fee
- tax



Combined or Together



When you **combine** objects or numbers you are bringing them **together**. This means you should _____.

For example:

I combined 3 apples and 4 bananas into one shopping cart. How much money did I spend on my shopping cart?





Rose or Climbed

When numbers rise or climb, they are increasing or going up.



For example:

Mrs. Cabral hiked 300 feet and stopped to eat lunch.

When she finished her lunch, she **climbed** 200 more feet. How many feet, **all together**, did Mrs. Cabral hike?



Fee or Tax

When spending money you may be **charged** a fee, or a tax.

For example:

Ms. Murphy took Molly with her on a plane to Florida. The airline charged her an **extra fee** of \$25.00 to bring her dog. If Ms. Murphy's plane ticket cost \$125.00, what was her final cost with Molly included?



When to subtract:

- dive / dove





Dive or Dove

When a number “dives” it is going down, therefore we need to subtract.



For example:

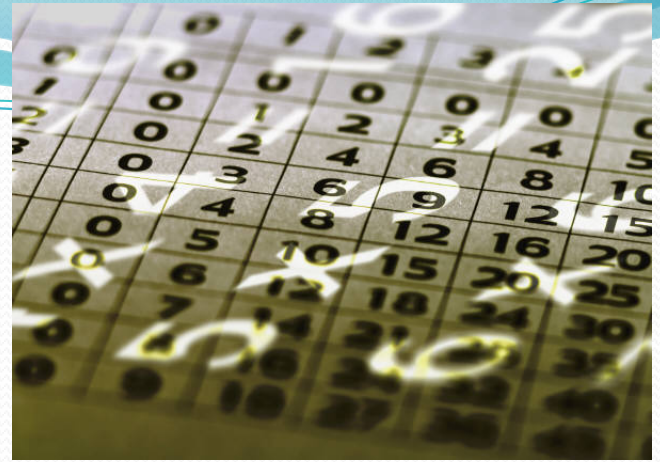
Mrs. Snow’s bank account dove when she went on a shopping spree at the mall.

She originally had \$250.00 and her account **dove** \$75.00.

How much money does she **have left** in her account?

When to multiply:

- by
- per
- twice / doubled / tripled / quadrupled
- area
- volume





By and Per

Sometimes you may see a problem written this way:

Multiply 2 by 14. _____

The word “**by**” takes the place of the “x” symbol, telling you to multiply.

Other times you may see a problem written this way:

There are 20 students **per** 1 classroom. How many students are in 3 classrooms?

$$20 \times 3 =$$



twice/doubled= 2 times as great

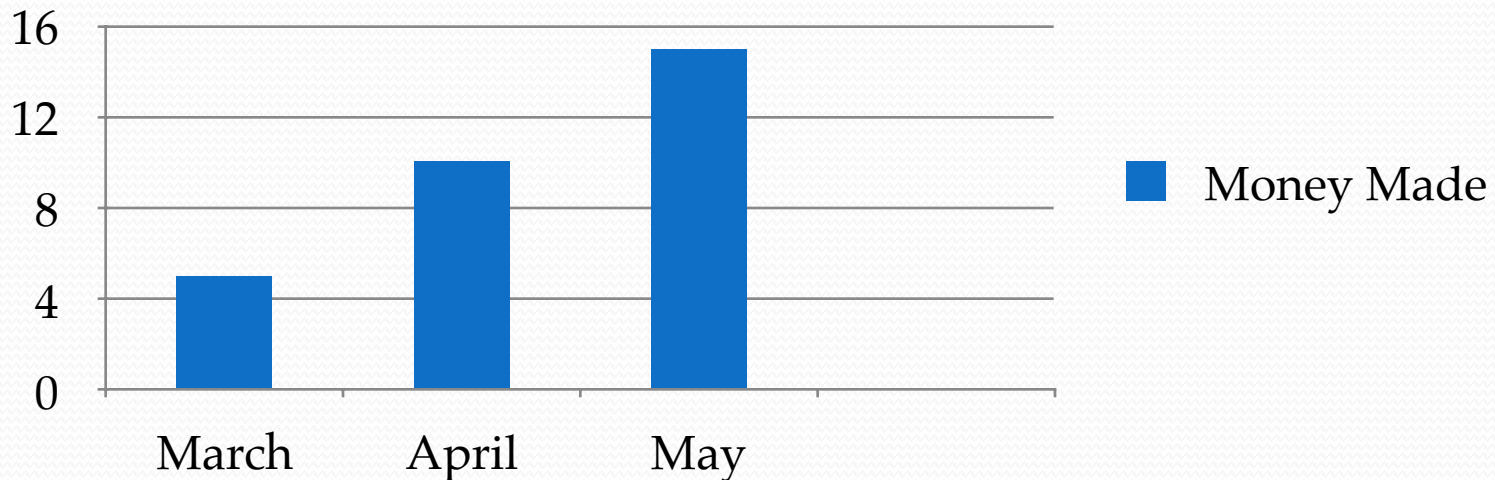
tripled= 3 times as great

quadrupled= 4 times as great

For example:

Jesus made \$5.00 selling pencils in the month of March. He doubled his sales in the month of April. How much money did Jesus make in the month of April?

Money Made



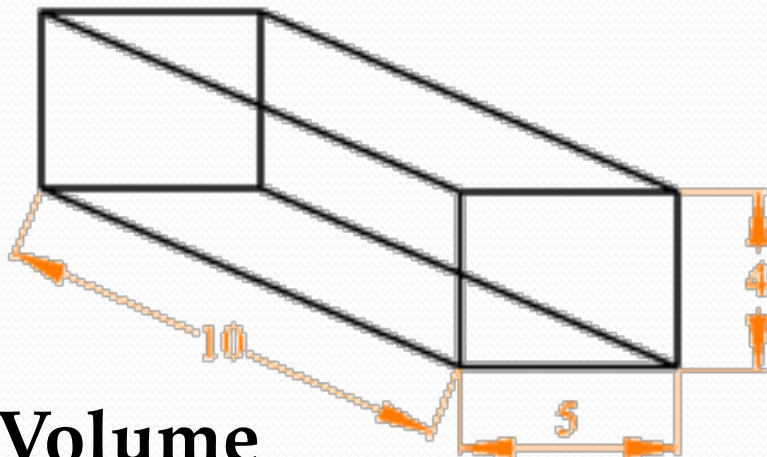


Area and Volume

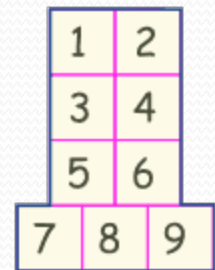
When you find the **area** of a shape you are measuring the amount of space inside the object.

When you find the **volume** of a shape you are measuring the amount of space inside a 3-D figure.

Both require you to **MULTIPLY!**



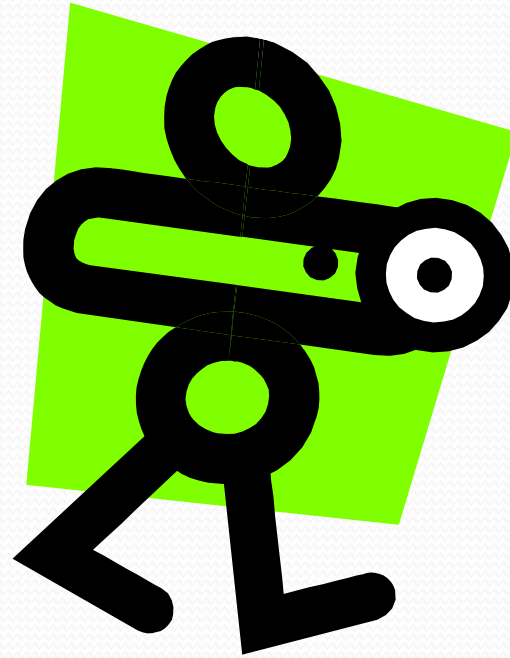
Volume



Area

When to divide

- split
- shared equally





Split

Numbers can be **split** into different groups or parts.

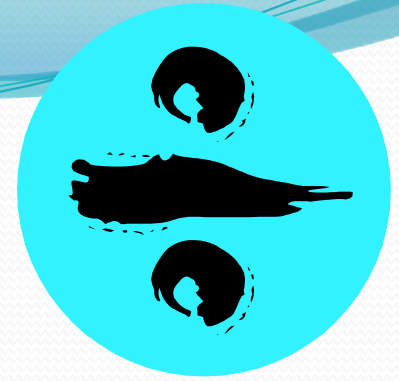
For example:

The class of 25 students was **split** into 5 groups. How many students were in each group?

How do we use division to find this answer?



Shared equally



Ms. Murphy, Ms. Martorelli and Mrs. Snow all shared a pizza equally. There were 12 slices all together. How many pieces did each person eat?

How can we use division to answer this question?

