From Jack B. Littles to

Jack-o-Lanterns

(Math with Pumpkins)



Crease

**Vocabulary**

**Crease -** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Estimate**-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Vertical -** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Horizontal -** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I estimate that my pumpkin has \_\_\_\_\_\_\_\_\_\_\_\_\_ creases.

My pumpkin really has \_\_\_\_\_\_\_\_\_\_\_ creases.

Crease

**Crease -** A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the line that runs \_\_\_\_\_\_\_\_\_\_\_\_\_ along the pumpkin.

**Estimate**-An \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ guess.

**Vertical -** Positioned \_\_\_\_\_ and \_\_\_\_\_\_\_\_ as opposed to \_\_\_\_\_\_\_

to \_\_\_\_\_\_\_\_\_\_

**Horizontal -** Positioned \_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_ as opposed to

 \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_.

I estimate that my pumpkin has \_\_\_\_\_\_\_\_\_\_\_\_\_ creases.

My pumpkin really has \_\_\_\_\_\_\_\_\_\_\_ creases.

Circumference

**Vocabulary**

**Circumference - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Conversions**- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Inches -** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Centimeters -** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* I estimate the circumference of my pumpkin will be \_\_\_\_\_\_\_\_\_\_\_\_\_ inches.
* My pumpkin has a circumference of \_\_\_\_\_\_\_\_\_\_\_\_ inches.
* Convert your measurement in inches to centimeters. SHOW YOUR WORK! To convert inches to centimeters, I must multiply the total inches by 2.54
* \_\_\_\_\_in. x 2.54 = \_\_\_\_\_cm.
* The circumference of my pumpkin is \_\_\_\_\_\_\_\_\_\_ centimeters.
* \*Measure the circumference of your pumpkin with a piece of yarn and glue to a piece of construction paper in the form of a circle.

Circumference

**Vocabulary**

**Circumference -** The \_\_\_\_\_\_\_\_\_\_\_ all the way around the edge of a

\_\_\_\_\_\_\_\_\_\_.

**Conversions**- To \_\_\_\_\_\_\_\_\_\_ in form.

**Inches -** A unit of linear \_\_\_\_\_\_\_\_\_ equal to one twelfth of a foot.

**Centimeters -** A unit of \_\_\_\_\_\_\_\_ equal to one hundredth of a meter

* I estimate the circumference of my pumpkin will be \_\_\_\_\_\_\_\_\_\_\_\_\_ inches.
* My pumpkin has a circumference of \_\_\_\_\_\_\_\_\_\_\_\_ inches.
* Convert your measurement in inches to centimeters. SHOW YOUR WORK! To convert inches to centimeters, I must multiply the total inches by 2.54
* \_\_\_\_\_in. x 2.54 = \_\_\_\_\_cm.
* The circumference of my pumpkin is \_\_\_\_\_\_\_\_\_\_ centimeters.
* \*Measure the circumference of your pumpkin with a piece of yarn and glue to a piece of construction paper in the form of a circle.

Diameter

**Vocabulary**

**Diameter- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Center point**- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* I estimate that my pumpkin will have a diameter of \_\_\_\_\_\_\_\_\_\_\_\_ inches
* Get a new piece of yarn and your circle paper.
* Hold the new yarn on one edge of the circle, run it through the center point to the opposite edge of the circle. Cut the yarn.
* To measure the diameter of your pumpkin in inches measure your new piece of yarn.
* My pumpkin has a diameter of \_\_\_\_\_\_\_\_\_\_.
* Convert your diameter in inches to centimeters. SHOW YOUR WORK! To convert inches to centimeters, multiply the total inches by 2.54.

\_\_\_\_\_\_\_\_\_in. x 2.54 = \_\_\_\_\_\_\_\_\_\_cm.

* The diameter of my pumpkin is \_\_\_\_\_\_\_\_\_\_ centimeters.

Diameter

**Vocabulary**

**Diameter-** A line that cuts a \_\_\_\_\_\_\_\_\_\_\_\_\_\_directly in \_\_\_\_\_\_\_\_\_\_\_.

**Center point**- The \_\_\_\_\_\_\_\_\_of a circle.

* I estimate that my pumpkin will have a diameter of \_\_\_\_\_\_\_\_\_\_\_\_ inches
* Get a new piece of yarn and your circle paper.
* Hold the new yarn on one edge of the circle, run it through the center point to the opposite edge of the circle. Cut the yarn.
* To measure the diameter of your pumpkin in inches measure your new piece of yarn.
* My pumpkin has a diameter of \_\_\_\_\_\_\_\_\_\_.
* Convert your diameter in inches to centimeters. SHOW YOUR WORK! To convert inches to centimeters, multiply the total inches by 2.54.

\_\_\_\_\_\_\_\_\_in. x 2.54 = \_\_\_\_\_\_\_\_\_\_cm.

* The diameter of my pumpkin is \_\_\_\_\_\_\_\_\_\_ centimeters.

Radius

**Vocabulary**

**Radius- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* I estimate that my pumpkin will have a radius of \_\_\_\_\_\_\_\_\_\_\_\_ inches
* Hold a new piece yarn on one edge of the circle, run it through the center point and cut the yarn.
* Measure this piece of yarn using a ruler.
* My pumpkin has a radius of \_\_\_\_\_\_\_\_\_\_.
* Convert your radius in inches to centimeters. SHOW YOUR WORK! To convert inches to centimeters, multiply the total inches by 2.54.

\_\_\_\_\_\_\_\_\_in. x 2.54 = \_\_\_\_\_\_\_\_\_\_cm.

* The radius of my pumpkin is \_\_\_\_\_\_\_\_\_\_ centimeters.

Radius

**Vocabulary**

**Radius-** Half the distance of the \_\_\_\_\_\_\_\_\_\_\_\_\_

* I estimate that my pumpkin will have a radius of \_\_\_\_\_\_\_\_\_\_\_\_ inches
* Hold a new piece yarn on one edge of the circle, run it through the center point and cut the yarn.
* Measure this piece of yarn using a ruler.
* My pumpkin has a radius of \_\_\_\_\_\_\_\_\_\_.
* Convert your radius in inches to centimeters. SHOW YOUR WORK! To convert inches to centimeters, multiply the total inches by 2.54.

\_\_\_\_\_\_\_\_\_in. x 2.54 = \_\_\_\_\_\_\_\_\_\_cm.

* The radius of my pumpkin is \_\_\_\_\_\_\_\_\_\_ centimeters.

Weight

**Vocabulary**

**Weight- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Pounds- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Grams- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* I estimate that my pumpkin weighs \_\_\_\_\_\_\_\_\_\_ pounds
* Place your pumpkin on the center of the scale
* Record the weight of your pumpkin in pounds (lbs)
* Convert pounds into grams. SHOW YOUR WORK!
	+ To convert pounds into grams, multiply \_\_\_\_\_\_\_\_lbs x 454.
	+ \_\_\_\_\_\_\_\_lbs x 454 = \_\_\_\_\_\_\_\_\_\_ grams
* My pumpkin weighs \_\_\_\_\_\_\_\_\_ grams

Weight

**Vocabulary**

**Weight-** The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a thing

**Pounds-**a unit of \_\_\_\_\_\_\_\_ in general use equal to 16 oz (about the

size of a \_\_\_\_\_\_\_\_\_\_\_\_\_)

**Grams-**a \_\_\_\_\_\_\_\_\_ unit of mass equal to one thousandth of a kilogram (about the size of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

* Iestimate that my pumpkin weighs \_\_\_\_\_\_\_\_\_\_ pounds
* Place your pumpkin on the center of the scale
* Record the weight of your pumpkin in pounds (lbs)
* Convert pounds into grams. SHOW YOUR WORK!
	+ To convert pounds into grams, multiply \_\_\_\_\_\_\_\_lbs x 454.
	+ \_\_\_\_\_\_\_\_lbs x 454 = \_\_\_\_\_\_\_\_\_\_ grams
* My pumpkin weighs \_\_\_\_\_\_\_\_\_ grams

Design your Jack-o-Lantern!

Jack B Little to Jack-o-Lanterns!

* Use your design page to carve your pumpkin.
* Upon completion, place your jack-o-lantern on the scale.
* Record the weight of your jack-o-lantern in pounds.
* My jack-o-lantern weighs \_\_\_\_\_\_\_\_\_\_ pounds.
* Convert pounds into grams. SHOW YOUR WORK! To convert pounds to grams, multiply \_\_\_\_\_\_\_\_\_lbs x 454

\_\_\_\_\_\_\_\_lbs x 454 = \_\_\_\_\_\_\_\_\_\_grams

* My jack-o-lantern weighs \_\_\_\_\_\_\_\_ grams.
* The difference in weight between my pumpkin and jack-o-lantern is
* \_\_\_\_\_\_\_\_\_\_lbs
* or \_\_\_\_\_\_\_\_\_\_grams

Seeds

* I estimate that my pumpkin has \_\_\_\_\_\_\_\_\_\_ seeds.
* Count the number of seeds in your pumpkin.
* My pumpkin actually has \_\_\_\_\_\_\_\_\_ seeds.
* I estimate my pumpkin seeds weigh \_\_\_\_\_\_\_\_\_\_ grams.
* Use the scale to weigh your seeds.
* My pumpkin seeds actually weigh \_\_\_\_\_\_\_\_\_ grams.

Vocabulary

Crease - A crease is the line that runs vertically along the pumpkin

Estimate - An educated guess

Vertical - Positioned up and down as opposed to side to side

Horizontal - Positioned side to side as opposed to up and down.

Circumference - The length all the way around the edge of a circle.

Conversion - To change in form

Centimeters - A unit of length equal to one hundredth of a meter

Inches - A unit of linear measure that is equal to one twelfth of a foot

Diameter - A line the cuts a circle directly in half

Center point - The center of a circle.

Radius - Half the distance of the diameter

Weight - the heaviness of a thing

Pounds - a unit of weight in general use equal to 16 oz (about the size of a loaf of bread or a football)

Gram - a metric unit of mass equal to one thousandth of a kilogram (about the size of a paperclip)