

# Trick or Treat Place Value decimals

A decimal and place value exercise



THE  
Math Dogs

# Candy calculation

You and a partner (or small group) have been given a random assortment of trick-or-treat candies. Each assortment has 4 different types of candies:

Lolipops -- Chocolates -- Hard candies -- Gummies

Each type of candy has a value:

Lollipop = 1.25

Chocolate = .95

Hard candy = .80

Gummy = 1.125

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Go through your trick-or-treat bags, sort the candies, and add up their values in the columns below:

	Lolipops	Chocolates	Hard Candies	Gummies
Total value				

# Examples and Practice

Practice breaking up numbers into different place values.

For example, 8 ones = 80 tenths or 3.2 ones = 320 hundredths.

Look at the examples in the left column, then fill in the blanks in the right column!

**8 equals...**

**8 ones**

or

**80 tenths**

or

**800 hundredths**

or

**8,000 thousandths**

**6 equals...**

\_\_\_ ones

or

\_\_\_ tenths

or

\_\_\_ hundredths

or

\_\_\_ thousandths

**6.7 equals...**

**6.7 ones**

or

**67 tenths**

or

**670 hundredths**

or

**6,700 thousandths**

**3.2 equals...**

\_\_\_.\_\_ ones

or

\_\_\_ tenths

or

\_\_\_ hundredths

or

\_\_\_ thousandths

**4.25 equals...**

**4.25 ones**

or

**42.5 tenths**

or

**425 hundredths**

or

**4250 thousandths**

**4.44 equals...**

\_\_\_.\_\_ ones

or

\_\_\_ tenths

or

\_\_\_ hundredths

or

\_\_\_ thousandths



# Candy Inventory

	Lolipops	Chocolates	Hard candies	Gummies
Ones				
Tenths				
Hundredths				
Thousandths				

Each type of candy in your trick-or-treat bag needs to be filled in using the inventory matrix above. You'll need to add up all of your candies by their prices then put their **total value in the open place value matrix space above**. Don't fill in the black squares, only the open squares. Take a look at two example below.

For example- Let's say that you have 6 lolipops. ( $6 \times 1.25 = 7.5$ )

$7.5 = 7$  ones and 5 tenths

7 ones = 700 hundredths

5 tenths = 50 hundredths

Therefore, you would write 750 in the lolipop hundredths place

Another example- Let's say you have 4 gummies. ( $4 \times 1.125 = 4.5$ )

$4.5 = 4$  ones and 5 tenths

4 ones = 40 tenths

5 tenths = 5 tenths

Therefore, you would write 45 tenths in the tenths place for gummies

# Divide up your treats

How will your group divide up the candy evenly amongst your group members?

Write how you decided to fairly, equally divide the candies up amongst your group mates?

Write up the value of the candies each person in your group received below: