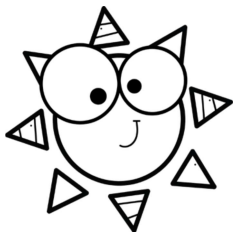
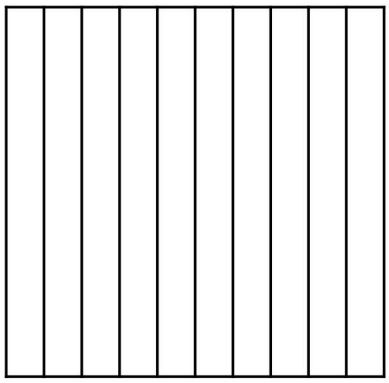
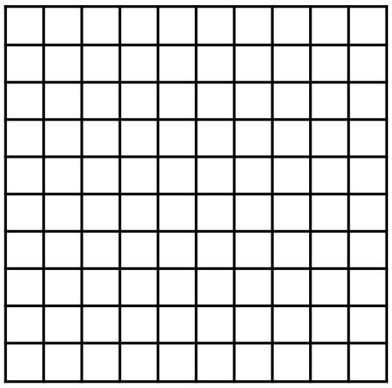
Equivalent **DECIMALS**



Shade 0.4



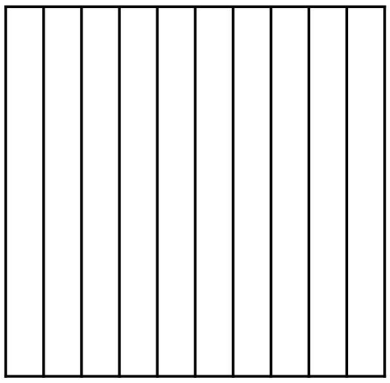
Shade 0.40



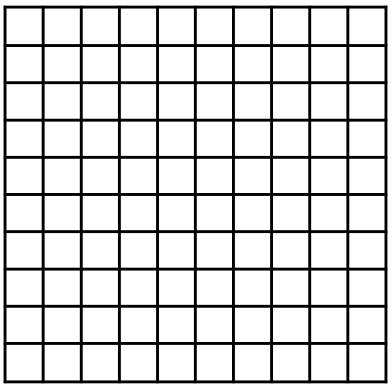
Standard Form:	0.4	0.40
Expanded Form:		
Expanded Notation:		

What do you notice about the portion of each whole that is shaded?

Shade 0.7



Shade 0.70



Standard Form:	0.7	0.70
Expanded Form:		
Expanded Notation:		

Guide to DECIMAL EXPANDED NOTATION

3.52

1 Use the digit in each place and multiply it by the value of that place. Put parentheses around each expression.
Example:

2 Start with the digit on the left and write each expression. Whenever the digit 0 is in a place, you can skip that place.
Example:

3 Write an addition symbol between each expression.
Example:

(___ x 1)	(___ x 0.1)	(___ x 0.01)

Try these:

2.1 _____

0.35 _____

2.73 _____

5.06 _____

Write these numbers in standard form:

(5 x 1) + (7 x 0.1) + (5 x 0.01) _____

(3 x 1) + (4 x 0.01) _____

(6 x 1) + (2 x 0.1) _____

Quick Guide to DECIMAL WORD FORM

Writing the word form of a number with a decimal:

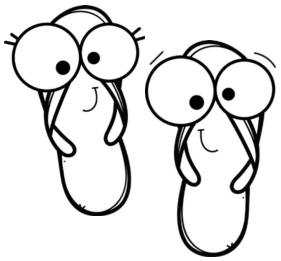
1 Read the whole number. (If there is only a zero before the decimal point, skip to step 3.)

2 The decimal point is written and read as "and."

3 Circle the digits after the decimal point. Read and write them as a number, followed by the name of the place of the last digit.

If you don't remember the name of the place of the last digit, use the decimal trick. Drop a "1" below the decimal and add a zero below each digit after it.

Write the word form below. 267 , 104 • 35



_____

_____

_____

Try these.

1.2 _____

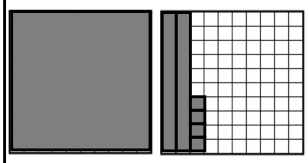
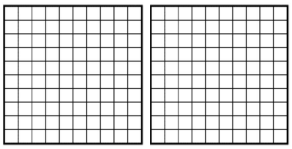
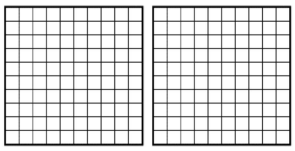
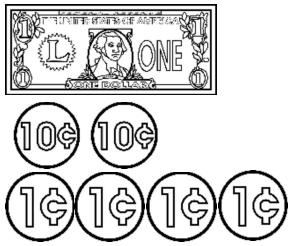
0.56 _____

0.6 _____

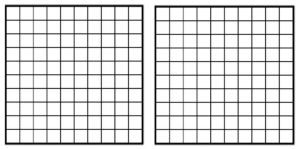
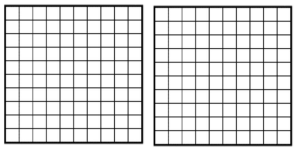
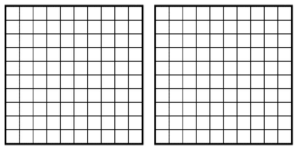
0.07 _____

2.4 _____

Ways to Represent **DECIMALS**

	Example	Your Turn	Your Turn Again
Standard Form	1.24		
Pictorial Model			
Money Model			
Word Form	One and twenty-four hundredths		
Expanded Form	1 + 0.2 + 0.04	1 + 0.3	
Expanded Notation	(1 x 1) + (2 x 0.1) + (4 x 0.01)		(1 x 1) + (3 x 0.01)

Ways to Represent **DECIMALS**

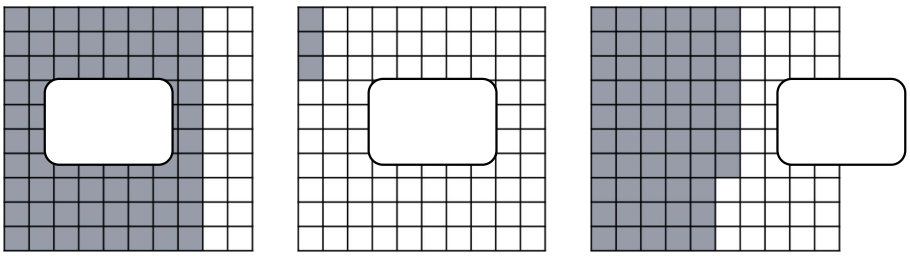
	You've Got This	Show Me Again	Decimal Master
Standard Form	0.62		
Pictorial Model			
Money Model			
Word Form			
Expanded Form			1 + 0.7
Expanded Notation		(1 x 1) + (8 x 0.1) + (1 x 0.01)	

COMPARING DECIMALS

1 Label each model.

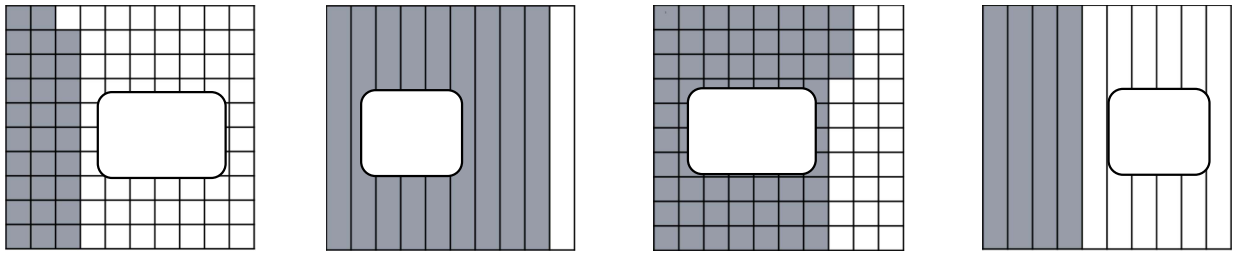
2 Add zeros as necessary so that every number has the same number of digits after the decimal point.

3 Compare the numbers.



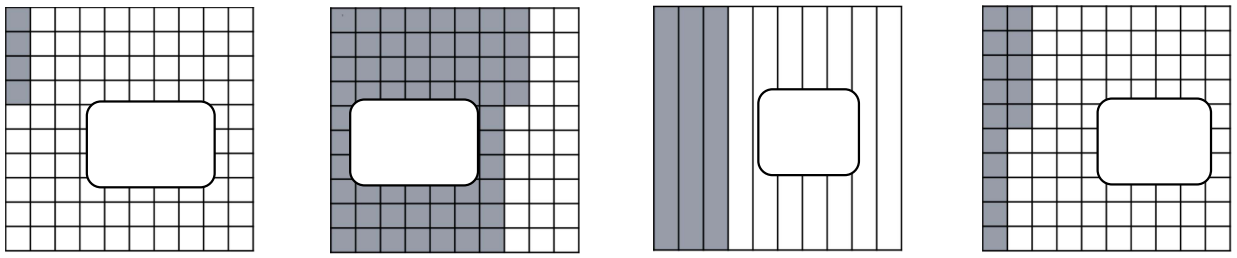
Complete the comparisons below to compare the models above:

___ > ___ > ___ ___ < ___ < ___



Complete the comparisons below to compare the models above:

___ > ___ > ___ > ___ ___ < ___ < ___ < ___



Complete the comparisons below to compare the models above:

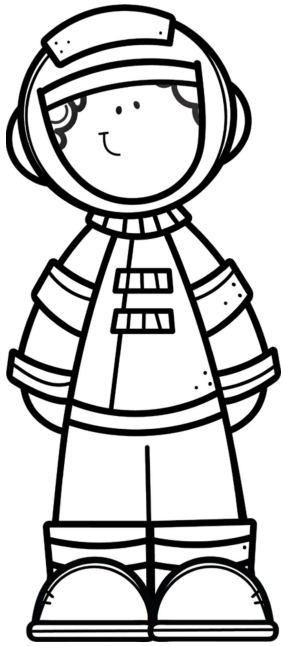
___ > ___ > ___ > ___ ___ < ___ < ___ < ___

COMPARING DECIMALS

1 Line up the decimal points.

2 Add zeros as necessary so that every number has the same number of digits after the decimal point.

3 Compare the numbers.



Order these numbers from least to greatest:

Example

0.8, 0.09, 0.3, 0.28, 0.67

Line up the decimal point and add zeros

0.80
0.09
0.30
0.28
0.67

Answer

0.09, 0.28, 0.3, 0.67, 0.8

0.7, 0.05, 0.32, 0.5, 0.35

0.08, 0.45, 0.3, 0.9, 0.15