# Bellringer: December 7, 2015

# remember what it looks like to be "ready to learn":

- Put your bag under your desk.
- Sharpen your pencils(no pens).
- Write down your homework.
- Update your Table of Contents.
- Pick up your paper(s) for today.

#### DMI:

- Complete the Opening Exercise on page 1 in your notes section.
- Oliscuss your answers with a partner.
- Be prepared to discuss as a class in 5 minutes.

### **OUTCOMES:**

- I can convert between fractions, decimals, and percents, including percents that are less than 1% and greater than 100%.
- I can explain a process for converting between fractions, decimals, and percents.
- o I can communicate effectively with the class by...

# Lesson 1: Percent

Classwork

#### Opening Exercise 1: Matching

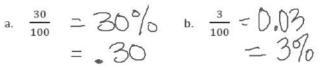
Match the percents with the correct sentence clues.

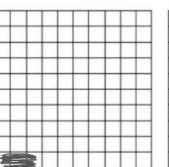
I PAN	
25%	25% cubic inches of water filled in a 20 cubic inch bottle. 20
50%	$\frac{1}{2} \frac{\text{D}}{\text{D}}$ 1 am less than $\frac{1}{100}$ . $\frac{19}{\text{D}}$ $\frac{25-50}{500}$ $\frac{0.5}{100}$ 25 out of 5,000 contestants won a prize. $\frac{5000}{500}$
30%	The chance of birthing a boy or a girl.  A flip of a coin.
1%	30 / I am less than a half but more than one-fourth. 15 / 30 15 out of 50 play drums in a band. 50.2 100
10%	I am equal to 1.    1 am equal to 1.   35 question out of 35 questions were answered correctly.
100%	I am more than 1.  Instead of the \$1,200 expected to be raised, \$3,600 was collected for the school's fundraiser.
300%	I am a tenth of a tenth.  One penny out of one dollar.
1/2 %	I am less than a fourth but more than a hundredth. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

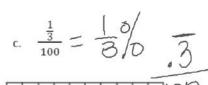
#### Opening Exercise 2

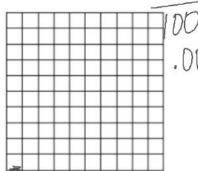
Color in the grids to represent the following fractions:

a. 
$$\frac{30}{100} = 30\%$$









Use the definition of the word percent" to write each percent as a fraction and then a decimal.

Percent		Fraction 31.5	Decimal 315
37.5%		100	W 999 1 7 1 2
100%		100	
110%	110	i	[.]
1%	100	100	.01
$\frac{1}{2}\%$	5		.005
= ,5%	100		

# Example 2

Fill in the chart by converting between a fraction, decimal, and percent. Show your work in the space below.

	Fraction	Decimal	Percent
0.5	350	3.5	350%
1000=	2.50	0.025	7 2.5%
	1/8	.125	12.5%
1(12.5) = 12.5 (12.5)	100 - 8 125		

# Problem Set

4. Fill in the chart by converting between fractions, decimals, and percents. Show work in the space below.

Fraction	Decimal	Percent
		100%
	0.0825	
	6.25	
125/100	.00125	$\frac{1}{8}\% = .126$
2 300		
		33.3%
$\frac{\frac{3}{4}}{100}$		
- 100 m m		250%
	0.005	
$\frac{150}{100}$		
	0.055	

# Problem Set

2. Benjamin believes that  $\frac{1}{2}\%$  is equivalent to 50%. Is he correct? Why or why not?