

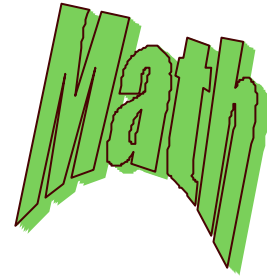
Algebra/Geometry Institute Summer 2005

Decimals, Percents and Fractions

Faculty Name: Shelia Taylor

School: Melissa Manning Elementary

Grade Level: 6th



- 1 Teaching objective(s): The students will learn how to convert a decimal to a percent and a percent to a decimal.

- 2 Instructional Activities:

The teacher will tap into students prior knowledge by asking someone to give the definition of the word percent. Once the answer has been given, the teacher will ask someone to give the symbol that represents percent. The students will give response to questions asked.

Percent means “per one hundred”
Symbol for percent is %

The teacher will then explain to the students that to change a decimal number to a percent, we multiply by 100. This is the same as moving the decimal point two places to the right. To change the decimal 0.22 to a percent, we move the decimal two places to the right and get 22%.

0.22 x 100 is the same as 22

0.22 x 100 = 22%

The teacher will give some more examples of what a decimal number written as a percent looks like:

.10 is the same as 10%

.75 is the same as 75%

.25 is the same as 25%

.90 is the same as 90%

.50 is the same as 50%

1.00 is the same as 100%

The teacher will then check to make sure everyone understands up to this point. Once it is clear that everyone understands, the teacher will then proceed to tell the students how to convert the percent back to a decimal.

The teacher will then model for the students how to change a percent to a decimal. The teacher will first tell the students that, when changing a percent to a decimal you write the

number over 100 and divide. When converting from a percent to a decimal, you drop the percent sign and move two places to the right.

Examples: 10% is the same as .10 30% is the same as .30
90% is the same as .90 40% is the same as .40
27% is the same as .27 49% is the same as .49

The teacher will then make sure everyone understands and proceed with examples.

Examples:

$$25\% = \frac{25}{100} = .25$$

$$50\% = \frac{50}{100} = .50$$

$$75\% = \frac{75}{100} = .75$$

$$13\% = \frac{13}{100} = .13$$

The teacher will make sure that everyone understands the concept of the lesson by orally reviewing before giving the students and individual exercise. Assignment - see attachment.

- 3 Materials and Resources: paper,
pencil,
marker,
board(dry erase),
Harcourt Math volume 1, 2004, Harcourt Inc.
pages 190 -193.
- 4 Assessment : Teacher Observation, student participation, and evaluation from
hand- out.

Name: _____

Decimal and Percent Conversion

Directions: Complete each conversion. Show all your work.

A. Convert each decimal to a percent.

1. 0.42

2. 0.67

3. 0.3

4. 0.89

5. 0.982

B. Convert each percent to a decimal.

1. 16%

2. 28%

3. 3%

4. 78%

5. 44%