



**RHODES UNIVERSITY**  
*Where leaders learn*

# FRF NUMERACY EDUCATION CHAIR

## Orientation Session

**Sat. 26 March 2011**

Diane Hendricks

**T**ogether  
**E**veryone  
**A**chieves  
**M**ore



# THE CIRCLE MAP

Things/people that have influenced you

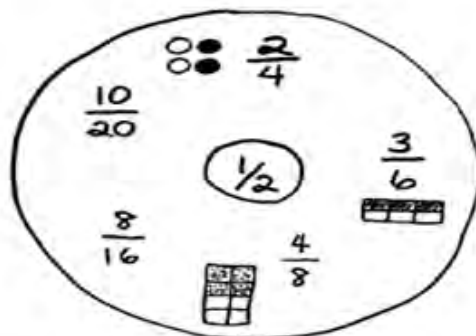
Things that tell something about you

Your Name

## KEY INFORMATION

The Circle Map is used to define a concept, word or idea. It is a great map to use to diagnose prior knowledge, brainstorm before writing, or use as a lesson closure.

**What is an equivalent fraction?**



More examples

Triangle



Number 260

### Guiding Questions for Constructing a Circle Map:

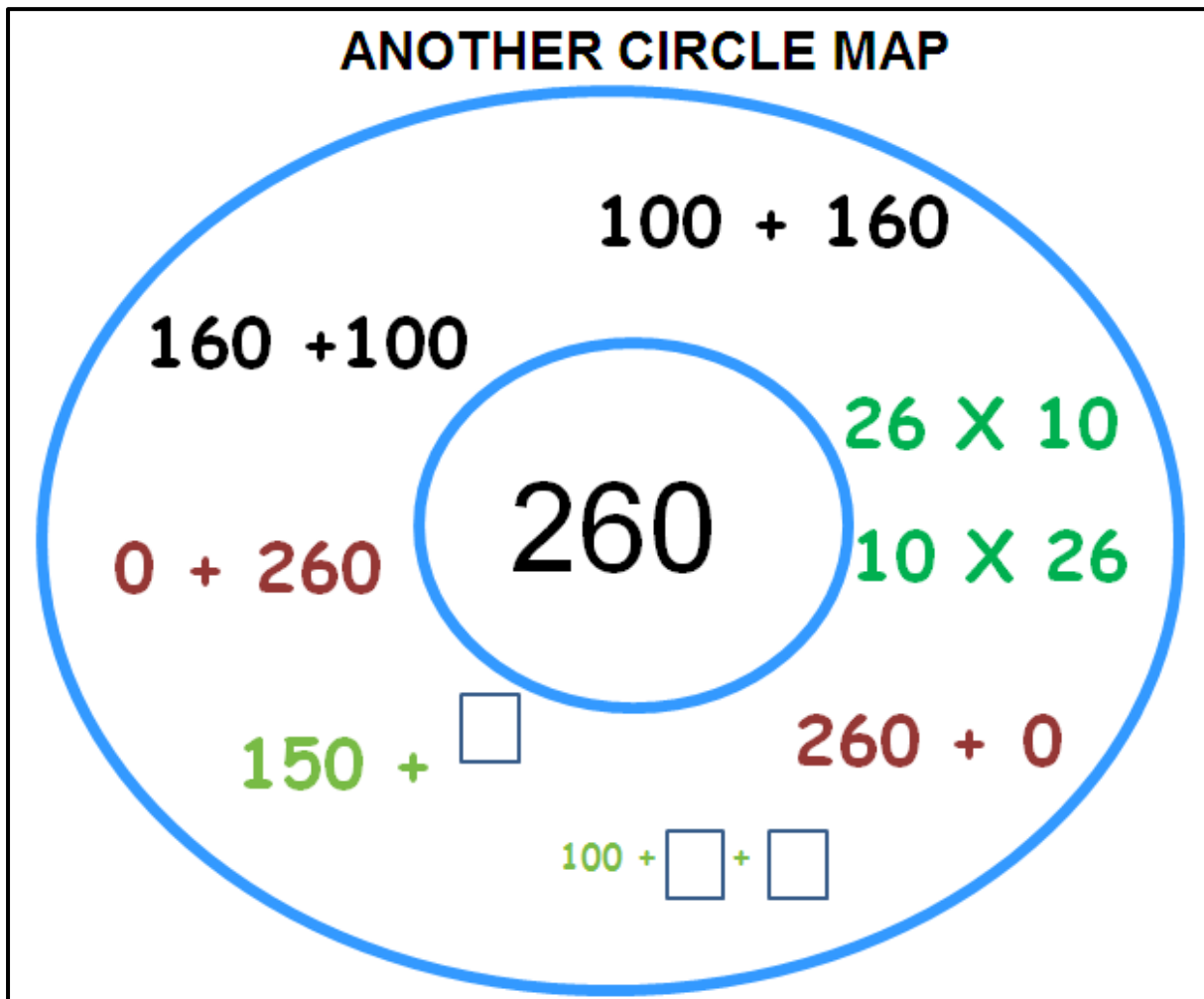
- What are the context clues that help define this word, topic, idea, number, shape?
- What do you already know about this word, topic or idea?

### Guiding Questions for Adding a Frame of Reference:

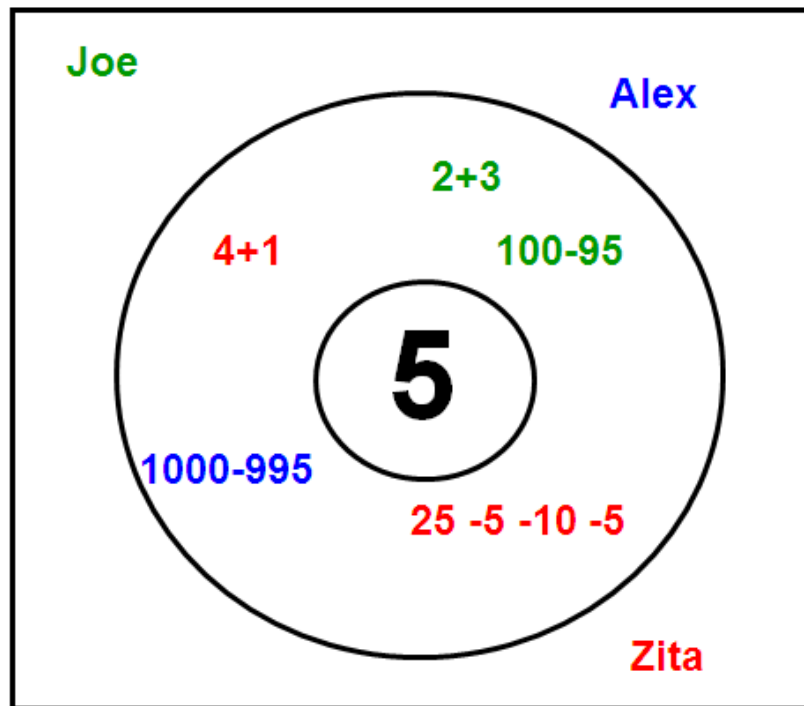
- How do you know what you know?
- Where are you getting your information?



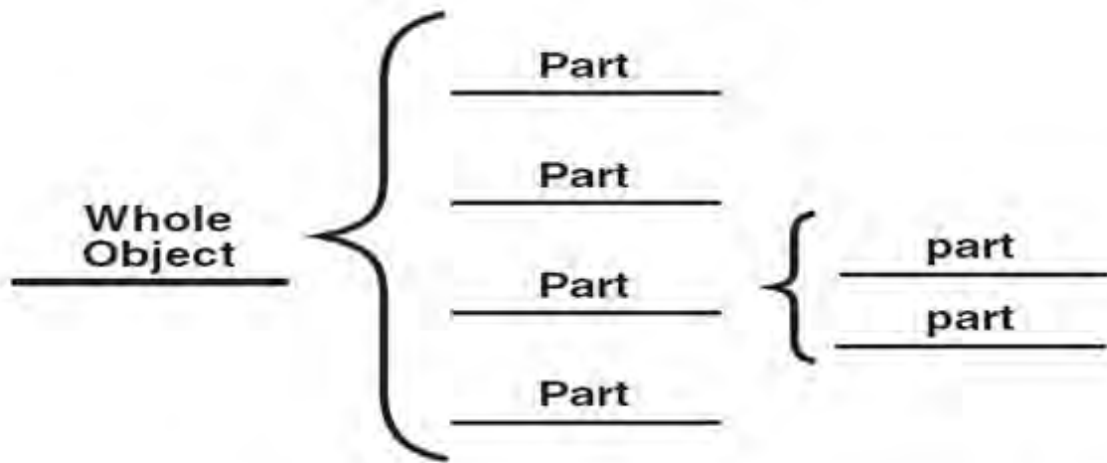
### ANOTHER CIRCLE MAP



## Use colour when learners work in pairs or groups



# THE BRACE MAP



## WHOLE TO PART RELATIONSHIPS



To Emphasize the Relationship of the Parts and Subparts

342

300

100

100

100

40

10

10

10

10

2

1

1

We have to know that this is a two step problem.

The FRF Numeracy Chairperson takes 2 teachers to lunch . Each lunch costs R 88 She leaves a 10% tip of the whole bill. What was the total cost of the whole lunch bill?

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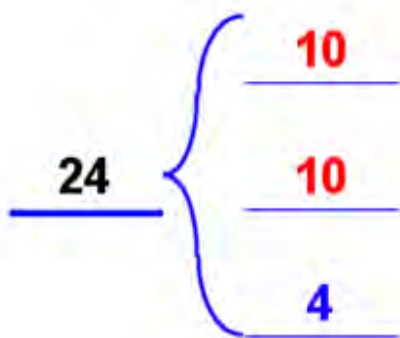
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We need to know how to convert % to decimals.

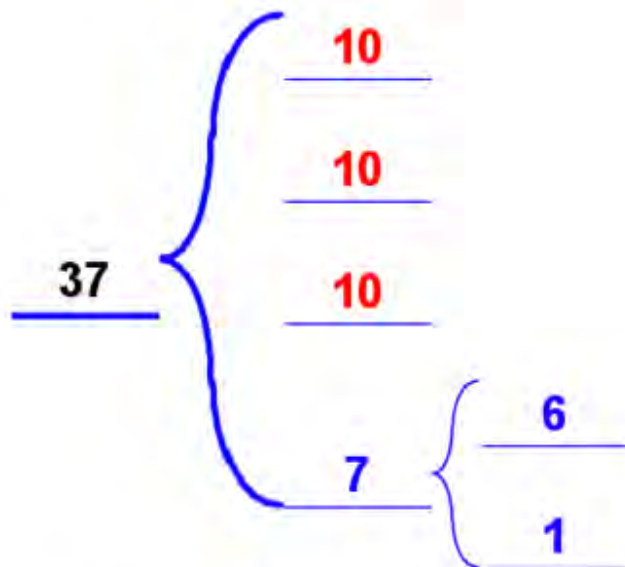
We need some prior knowledge about what a "tip" is.

To illustrate my strategy for adding



To show my thinking about groups of 10

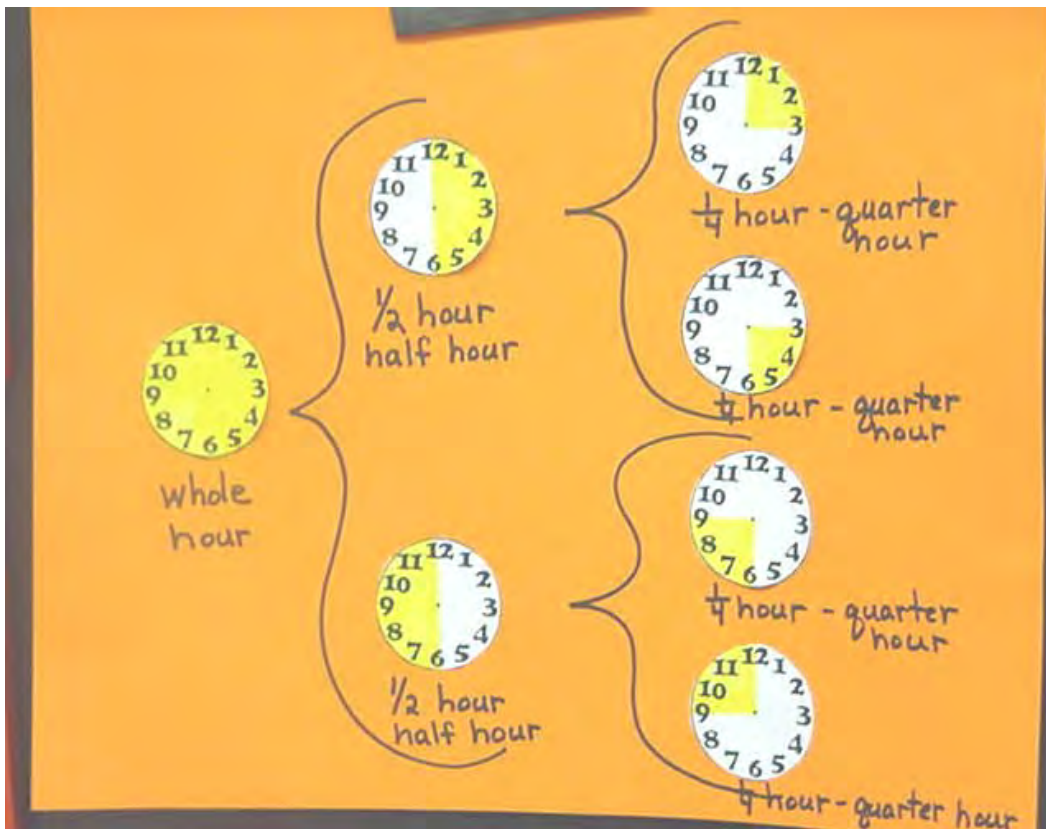
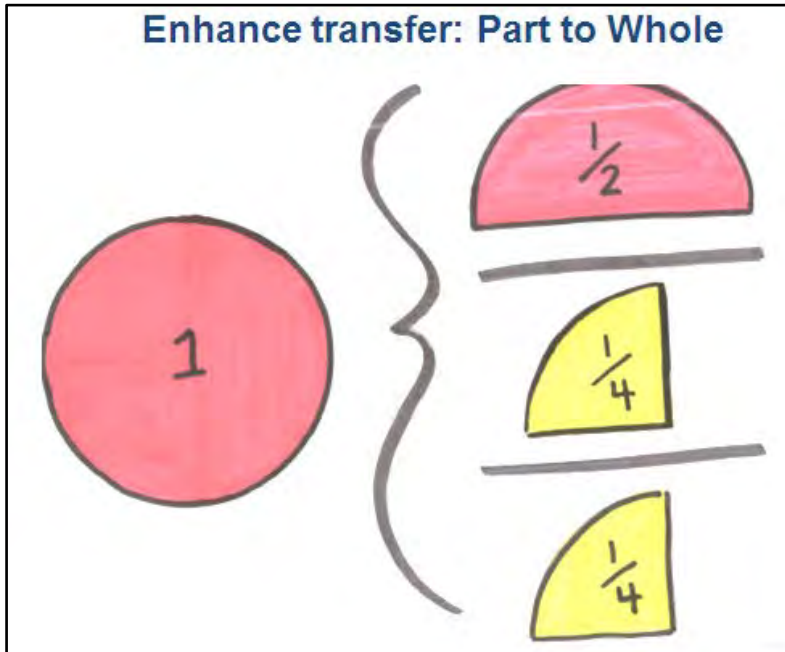
Break down numbers to simplify additions



Expanded notation helps with computation



## Enhance transfer: Part to Whole



**Knowledge is stored in two forms:**

**Linguistic Form**

**Nonlinguistic Form**

Research proves that the more we use both systems of representation, the better we are able to think and recall knowledge.