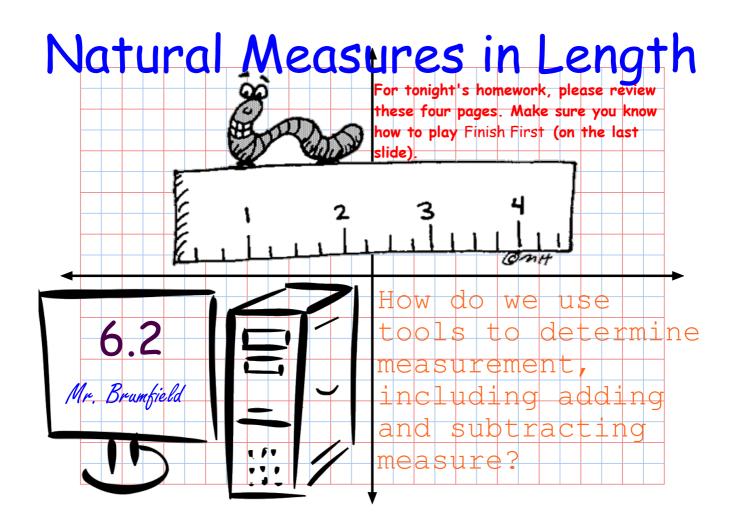
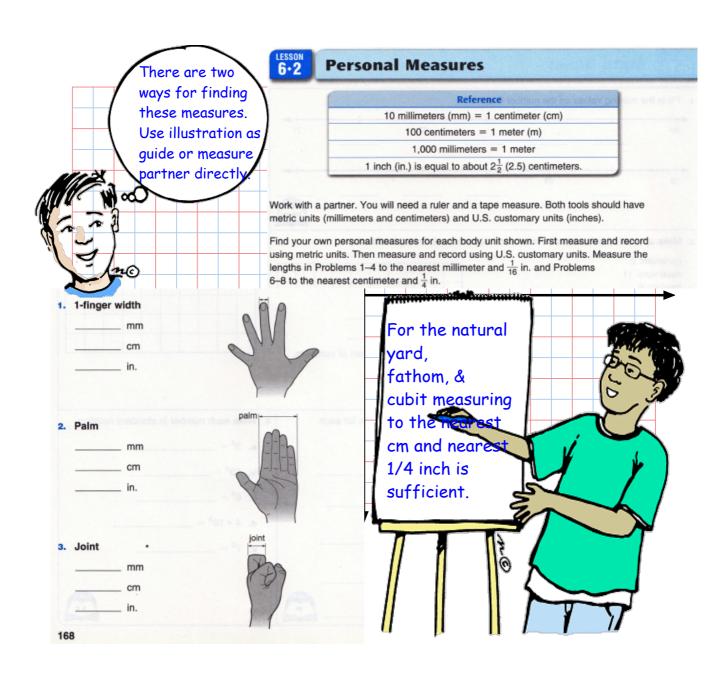
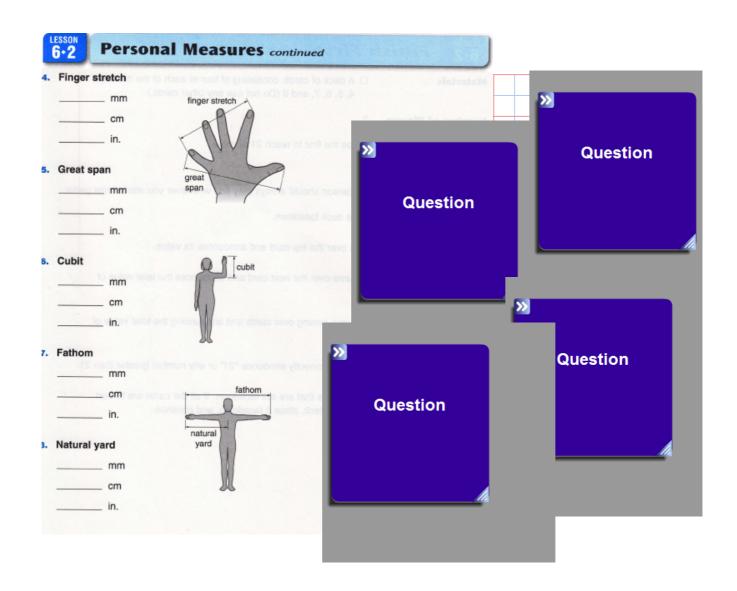
6.2.notebook January 06, 2014



6.2.notebook January 06, 2014



6.2.notebook January 06, 2014



6.2 Finish First

Materials

A deck of cards, consisting of four of each of the numbers
4, 5, 6, 7, and 8 (Do not use any other cards.)

Number of Players 2

Object of the Game To be the first to reach 21 or more

Directions

Decide who will go first. That person should always play first whenever you start a new game.

- 1. Shuffle the cards. Place the deck facedown.
- 2. The player going first turns over the top card and announces its value.
- The player going second turns over the next card and announces the total value of the two cards turned over.
- Partners continue to take turns turning over cards and announcing the total value of all the cards turned over so far.
- 5. The winner is the first player to correctly announce "21" or any number greater than 21.
- Start a new game using the cards that are still facedown. If all the cards are turned over during a game, shuffle the deck, place it facedown, and continue.



Finish First

A **fair game** is one in which each player has the same chance of winning. If there is an advantage or disadvantage in playing first, then the game is not fair.

With your partner, investigate whether Finish First is a fair game.

 Collect data by playing the game. Over the next week, play Finish First at least 50 times. Keep a tally each day. Show how many times the player going first wins, and how many times the player going second wins.

Date	Player Going First Wins	Player Going Second Wins	Total Games to Date
	eidet arlt etele.	de Co	digit numeral with
den teine			undradins place.
Egy	0.	10.0	ousandths place.
101			ons place, and
Box	000,000,	100,7	
			numeral in words.

- 2. Each day you play the game, record the results on the classroom tally sheet.
- 3. Each day you play, ask yourself:
 - What is my estimate for the chance that the player going first will win?
 - ♦ What is my estimate for the chance that the player going second will win?
 - Do my estimates change as more and more games are played?
 - Does Finish First seem to be a fair game?



Order Fractions and Decimals