

US Coal Consumption-primary

Title: U.S. Coal Consumption






Level: Intermediate, Middle School

Time: One Day

KERA Goals: 2.12, 2.33

Objective: Use deductive thinking skills to solve the logic puzzle from the clues and the data sheet.

Materials: Duplicate the following worksheet

						
State						
Tonnage						
Rank	4					

Activity:

Your job as a U.S. Coal Inspector is to determine which state representatives belong where on the distinguished panel board above. Be sure to read the clues given below carefully. You may not be able to use some of the clues immediately, but they may prove to be useful later in the puzzle. Use only the figures in the 1989 column when you are figuring out rank and tonnage.

Clues:

1. This state lost its rank in 1989.
2. No one sits on Indiana's right, but the state that used 90,989 thousand short tons is at his immediate left.
3. The Keystone state is not #1 in Coal Consumption, but its position on the panel board matches its rank if you move from right to left.
4. The state between the 3rd ranking state by U.S. Coal Consumption and the 5th, grosses 32,792 thousand short tons.

Bonus: Add up the tonnage of the six states represented.

U.S. Consumption Ranked by State, 1987-1989
(in thousand short tons) Source: DOE/EIA-0121

	1987		1988		1989	
Rank	State	Tonnage	State	Tonnage	State	Tonnage
1	Texas	82,915	Texas	86,689	Texas	90,989
2	Ohio	59,350	Ohio	61,096	Ohio	61,016

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3	Pennsylvania	55,305	Pennsylvania	58,639	Pennsylvania	58,526
4	Indiana	52,335	Indiana	56,762	Indiana	58,203
5	Michigan	35,865	Michigan	36,435	Michigan	37,186
6	W. Virginia	34,815	W. Virginia	35,355	W. Virginia	34,932
7	Illinois	34,632	Kentucky	35,176	Kentucky	32,792
8	Kentucky	32,023	Illinois	32,979	Illinois	32,374

Provided by Pittsburgh Energy Technology Center