## WINDSURFING FORCES

NAME

HOUR

In order to go windsurfing, there must be enough force from the wind to inflate your sail. Use the information from the charts to answer the questions below.

Wind surf	Board	Force needed	Maximum	Cost
board model	Size	to fill the sail	force the sail	
			can handle	
Pacer Sport 225	56 inches	1 pound/in <sup>2</sup>	10 pound/in <sup>2</sup>	\$799.95
Bic Beach	59 inches	1.5 pound/in <sup>2</sup>	10 pound/in <sup>2</sup>	\$899.95
Bic Techno	59 inches	1.5 pound/in <sup>2</sup>	10 pound/in <sup>2</sup>	\$850.00
Stormforce 3000	64 inches	$2 \text{ pound/in}^2$	11 pound/in <sup>2</sup>	\$1299.99

BEACHES	TYPICAL	MILES
	WIND	AWAY
	SPEEDS	
Sandy Shore Beach	20-25 mph	30
Cliff Rock Beach	15-20 mph	5
Paradise Beach	5-10 mph	10



The force exerted by Wind



- How fast must the wind be going in order for you to use ANY of the windsurfing boards listed a wind in miles per hour
   A] 10 mph
   B]15mph
   C]20 mph
   D] 25 mph
- 2. If the wind was blowing 25 mph, could the Bic Techno windsurfing board handle it?
- 3. 10 mph is exactly twice as fast as 5 mph. Is the force twice as much also?
- 4. Which beach would be the worst one to travel to?
  A] Sandy shore because its farthest
  C] Paradise because the winds are too slow
  D] Sandy shore because the winds would ruin the board
- 5. Which board is best for a beach that's not very windy?A] Pacer sport B] Bic Beach C] Bic Techno D] Stormforce 3000