

Weight & Surface 2

Scales, Mass & Weight

Name: _____

PART 1

1. When will the spring scale force be the same as the weight? (Check all that apply!)

- When the weight is at rest.
- When the weight is speeding up.
- When the weight is slowing down.
- When the weight maintains speed.

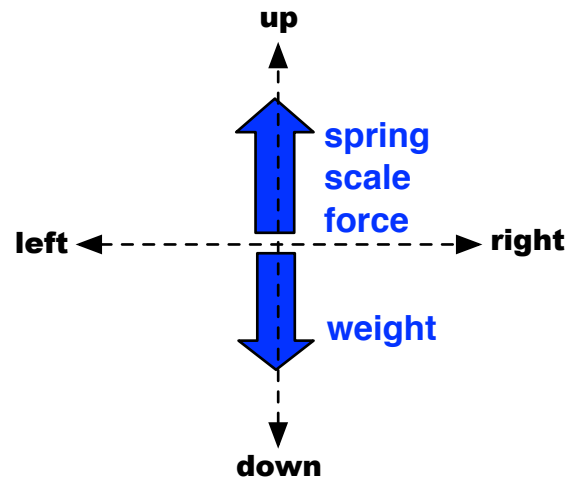
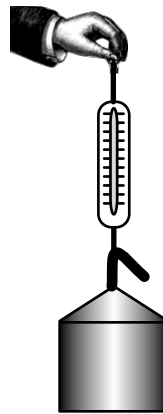
2. Use your spring scale and the 1 kilogram to fill in the first line of the table.

Then use reasoning to figure out what the other amounts of kilograms would weigh.

mass	weight
1 kg	
2 kg	
10 kg	
0.5 kg	
100 kg	

3. If you had to describe the strength of Earth's gravity with one number, what number would you pick?

What units do you think it might have?



PART 2

4. Use reasoning to reverse the process now and figure out the mass in kilograms.

mass	weight
	50 N
	1 N
	1,000 N

5. Use the spring scale to measure the weight of the wood block in Newtons.

Use reasoning to reverse the process now and figure out its mass in kilograms.

mass	weight