Appendix: Numeracy Understanding in Medicine Instrument: Short Form

1. James has diabetes. His goal is to have his blood sugar between 80 mg/dL and 150 mg/dL in the morning. Which of the following blood sugar readings is within his goal?

   a. 55 mg/dL

   b. 140 mg/dL

   c. 165 mg/dL

   d. 180 mg/dL

2. Nathan has a pain rating of 5 on a pain scale of 1 (no pain) to 10 (worst possible pain). One day later Nathan still has pain but not as much. Now, what pain rating might Nathan give?

   a. 3

   b. 5

   c. 7

   d. 9

3. Frank has a test done to look for blockages in the arteries of his heart. The doctor said that a person with a higher percent (%) blockage has a high chance of having a heart attack. Which percent (%) blockage has the highest chance of a heart attack?

   a. 33%

   b. 50%

   c. 75%

   d. 99%

4. Natasha started a new medicine that may cause the side effects listed below. Which side effect is Natasha <u>least</u> likely to have?

	Side Effect	Chance of Occurring
a	Dizziness	1 in 5 people
b	Nausea	1 in 10 people
c	Stomach pain	1 in 100 people
d	Allergic reaction	1 in 200 people

5. James starts a new blood pressure medicine. The chance of a serious side effect is 0.5%. If 1000 people take this medicine, about how many would be expected to have a serious side effect?

   a. 1 person

   b. 5 people

   c. 50 people

   d. 500 people

6. The PSA (prostate specific antigen) is a blood test that looks for prostate cancer. The test has false alarms so about 30% of men who have an abnormal test turn out not to have prostate cancer. John has an abnormal test. What is the chance that John <u>has</u> prostate cancer?

    a. 0%

    b. 30%

    c. 70%

    d. 100%

7. A study found that a new diabetes medicine led to control of blood sugar in 8% more patients than the old medicine. This difference <u>was</u> statistically significant (p=0.05). The likelihood that this finding was due to chance alone is best described as less than:

    a. 1 in 5

    b. 1 in 10

    c. 1 in 15

    d. 1 in 20

8. A nutrition label is shown below. How many calories did Mary eat if she had 2 cups of food?

    a. 140 calories

    b. 280 calories

    c. 560 calories

    d. 680 calories

Nutrition Facts **Serving Size 1 cup (228g)** **Servings per Container 2**	
Amount Per Serving	
Calories 280	**Calories from Fat 120**
	% Daily Value*
Total Fat 13g	20%
Saturated Fat 5g	25%
Trans Fat 2g	*
Cholesterol 2mg	10%
Sodium 660 mg	28%

Total Carbohydrate 31g	10%
Dietary Fiber 3g	0%
Sugars 5g	
Nutrition Facts **Serving Size 1 cup (228g)** **Servings per Container 2**	
Amount Per Serving	
Calories 280	**Calories from Fat 120**
Protein 5g	
Vitamin A 4%	Vitamin C 2%
Calcium 15%	Iron 4%

*

Percent Daily Values art based on a 2,000-calorie diet. Your Daily values may be higher or lower depending on your calorie needs