

MATH ASSESSMENT

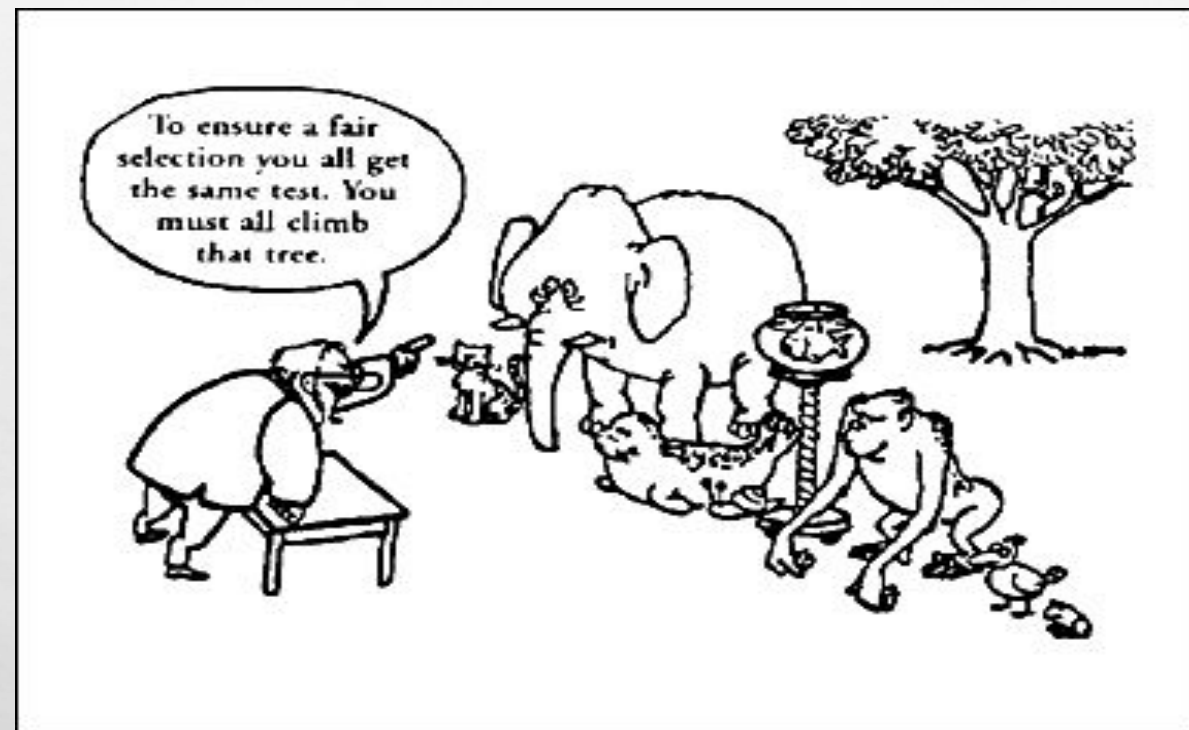
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MATH 118 – GENERAL EDUCATION MATHEMATICS

**“INTERPRET AND DRAW INFERENCES FROM MATHEMATICAL MODELS SUCH AS
FORMULAS, GRAPHS, TABLES, AND SCHEMATICS.”**



MATH 118 ASSESSMENT

- **QUANTITATIVE REASONING TEST - MADISON ASSESSMENT LLC**
- **3 QUESTIONS SURVEY - GOOGLE FORMS**
- **PILOT - SPRING 2017**
- **PRE-TEST & POST-TEST – FALL 2017 AND SPRING 2018**

FIRST QUESTION

1. Use the formula below that expresses the relationship between temperature in Celsius degrees, C, and Fahrenheit degrees, F, to answer the question.

$$C = \frac{5}{9}(F - 32)$$

PILOT SPRING 2017

Water boils at 212°F. What is this temperature in Celsius degrees?

- a) 100°
- b) 85.78°
- c) 32°

ASSESSMENT FALL 2017

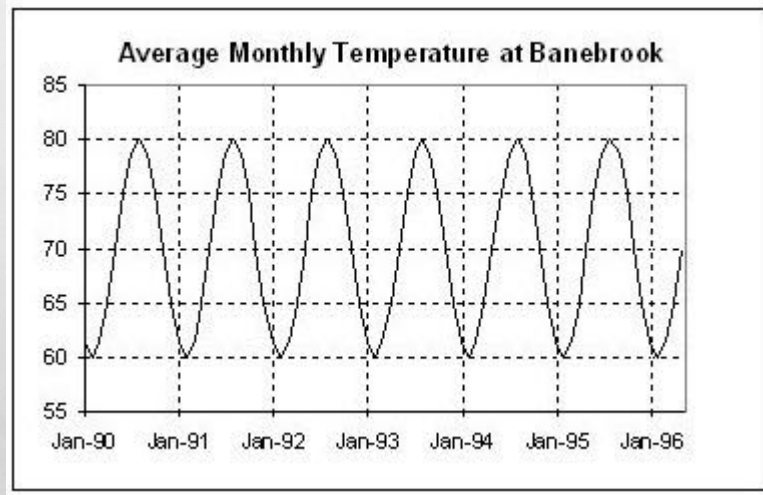
One of the highest temperature ever recorded in Chicago was 104°F. What is this temperature in Celsius degrees?

- a) 40°C
- b) 25.78°C
- c) 219.2°C

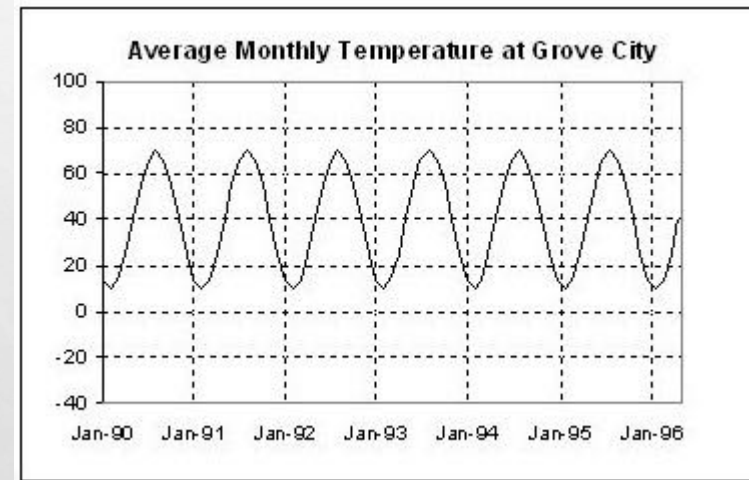
THIRD QUESTION - PILOT SPRING 2017

3. Regarding the two graphical displays given below, which of the following statements is correct?
- a) Banebrook (Graph 1) and Grove City (Graph 2) temperatures exhibit linear behavior through the year.
 - b) Banebrook (Graph 1) has larger changes in temperature than Grove City (Graph 2) through the year.
 - c) Neither of the above.

GRAPH 1



GRAPH 2

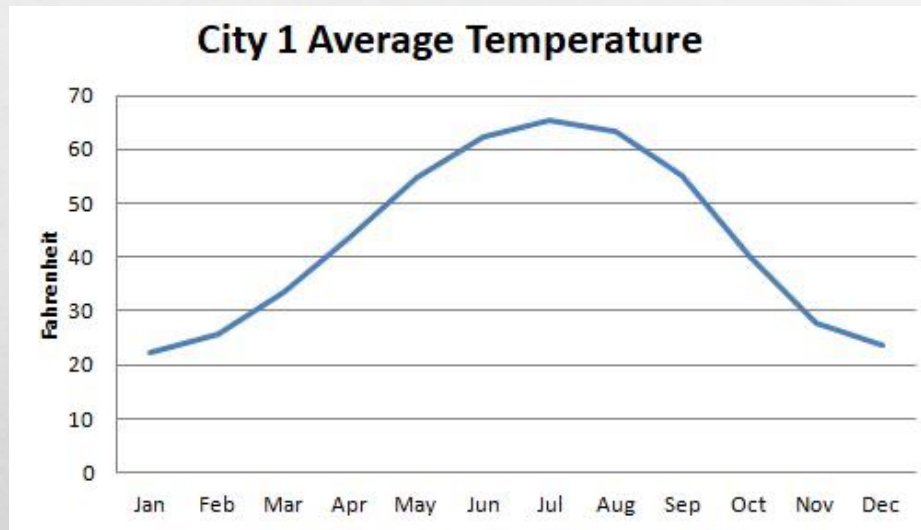


THIRD QUESTION-ASSESSMENT SPRING 2018

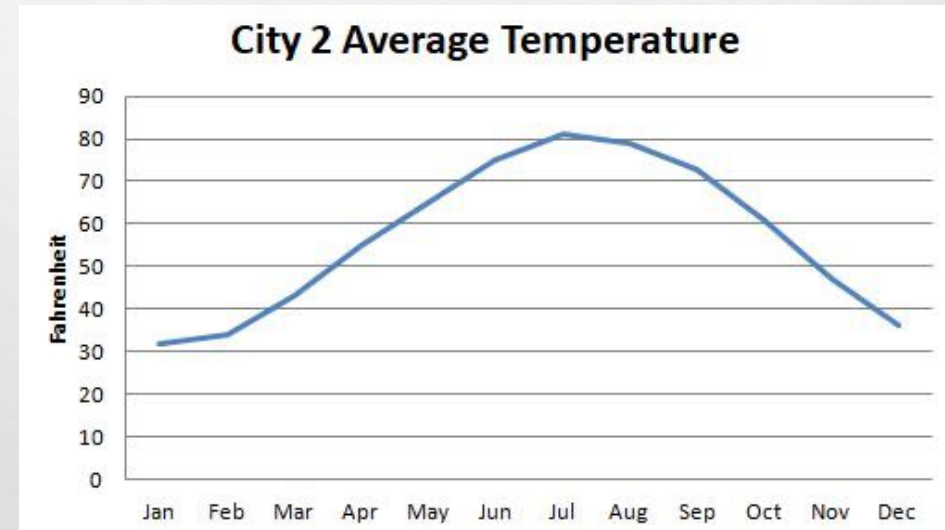
3. Regarding the two graphical displays given below, which of the following statements is correct?

- a) City 1 and City 2 average temperatures exhibit linear behavior through the year.
- b) City 1 has larger change in temperature from winter to summer than City 2 through the year.
- c) Neither of the above.

CITY 1



CITY 2



SECOND QUESTION

2. Study the table below and answer the following 3 questions.

2A) What is the total number of surveyed retirees on which Table 5 is based?

- a) 76
- b) 200
- c) 190
- d) 100

2B) For the surveyed retirees under age 62 from Table 5, what was the least mentioned reason for retirement?

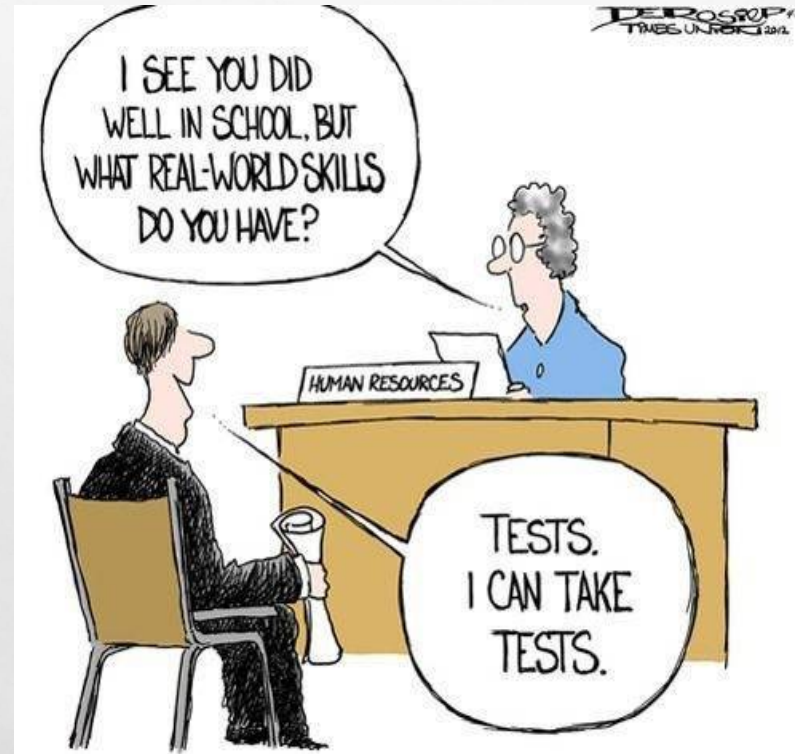
- a) Family concerns
- b) Benefits
- c) Health problems
- d) Make way for younger workers

2C) How many of the surveyed retirees who were between 62 and 64 from Table 5 reported that their reason for retirement was that they were “Ready to retire”?

- a) 10.5
- b) 33
- c) 50
- d) 66

Table 5. Reasons for Retirement by Age at Retirement

Reason for retirement	Age at Retirement		
	Under 62	Between 62-64	65 or older
Age	10.5	21.6	64.6
Ready to retire	10.5	50	14.6
Health problems	26.3	11.9	8.3
Plant closed	10.5	1.5	-
Benefits	10.5	3	-
Make way for younger workers	2.6	1.5	6.0
Bad work conditions/industry uncertainty	5.3	4.5	-
Family concerns	7.9	-	2.9
Enjoy life	7.9	1.5	2.1
Other	7.9	4.5	2.1
	100%	100%	100%
n =	76	66	48



THANK YOU!

