"Life as a Meteorologist" questions

1. Why are weather forecasters called meteorologists?

    Factoid) Aristotle's term meteor mean "things in the air." Weather forecasters are called meteorologists because they work with things in the air: rain, snow, ice, clouds and air pollution.

2. With which statement would the author of the article most agree?
    a. A meteorologist must be skilled in art, science, and math.
    b. Meteorologists are computer experts.
    c. You must be attractive and a good actor to be a meteorologist.
    d. <u>**A meteorologist must excel in computer research, science, communication sills, and problem-solving.**</u>

3. What does the author imply in the statement, "Meteorology as a career is fun, but very challenging"? Use a fact from the article to support your answer.

    Fun: very interesting career, wild weather patterns, solve problems, work with people and computers, every day is different.
    Challening: weather changes quickly, people count heavily on your forecasts, people face dangerous weather situations.

4. Which skills do you possess that would make meteorology a possible career choice for you?

    Answers will vary

5. Sunny McGregor reported that the high yesterday was 23° F. The low temperature was -2° F. What was the difference in temperatures?

    23 - (-2) = 25

6. The temperature at 3:00 am was 7° F. For each of the next two hours the temperature dropped 5°F. What was the temperature at 5:00 am?

    -3

7. Sunny McGregor, the meteorologist, recorded the following temperatures for Oslo, Norway, the first week in December: -5°, 4°, 12°, 6°, -3°, -1°, 7°. What was the range of temperatures?

    Low: -5°
    High: 12

    17 degree range

8. The weekly salary for 10 meteorologists is given in the chart below. Find the mean salary.

Weekly salary	Number of people
$500	5
$600	3
$700	2

$500 x 5 = $2500
$600 x 3 = $1800
$700 x 2 = $1400

Total = $5700

$5700 divided by 10 people = $570 per week mean salary

9. You are interviewing for a position as a meteorologist. The manager of the television station shows you the following salaries: $32,500; $40,000; $36,000; $72,000; $38,525. Which measure of central tendency (mean, median, mode, or range) best describes the salaries earned at the television station? Why did you use that measure?

> **Use the median. The $72,000 salary is probably earned by the station manager. The other salaries are in the $32,000 - $42,000 range.**

10. For homework tonight:
    a. Research Doppler radar. What does it do? Why is it important to meteorologists?

    b. Ask you parent/guardian which meteorologist they regularly watch on television or listen to on the radio. Why do they trust that meteorologist?

Enrichment activity

Steps for graphing the monthly mean temperatures for European capitals:

1. Record the capitals of the following European countries:

    a. England: **London**
    b. France: **Paris**
    c. Germany: **Berlin**
    d. Greece: **Athens**
    e. Ireland: **Dublin**
    f. Italy: **Rome**
    g. Spain: **Madrid**

2. Go to the website www.worldweather.org   Who developed and maintains this site?

    The Hong Kong Observatory

(Example based on temperatures for Paris, France):

Month	Low temp (degrees F.)	High temp (degrees F.)
Jan	36.5	44.4
Feb	37	46.8
Mar	41.2	53.2
Apr	44.2	58.5
May	50.9	66.2
Jun	55.9	71.2
Jul	59.9	75.9
Aug	59.7	76.3
Sept	54.5	69.4
Oct	48.6	60.4
Nov	41.5	50.7
Dec	38.5	46

Monthly temps (High/Lows) for Paris, France