
CHAPTER 2 — Basic Mathematics

A. Idaho is larger than Washington. Oregon is larger than Idaho.

1. Complete the following sentence: Washington is _____ than Oregon.
2. Explain in writing how you determined your answer.

B. The largest inland body of salt water in the Western Hemisphere is Great Salt Lake. Great Salt Lake varies in size depending on the flow of rivers that empty into it. The lake has no outlet. In the 1980s, Great Salt Lake was 2,400 square miles. In the 1960s, it was 950 square miles.

1. How many times larger in the 1980s was the surface of Great Salt Lake compared to its surface in the 1960s?
2. In prehistoric times the region was the site of Lake Bonneville, which covered 20,000 square miles. How much larger was Lake Bonneville than present day (you will have to look up its current size) Great Salt Lake?
3. Convert the square miles given in the preceding information to square kilometers and solve the problem in step 2 again.

C. Use clay; salt, flour, and water; or papier mâché to make a model of the Cascade Mountains of British Columbia, Washington, Oregon, and northern California. Be sure that your model expresses the relative heights of Mount Rainier, Mount Hood, Mount Baker, Mount Adams, Mount St. Helens, Mount Shasta, and other peaks in this range.

D. Chris's calculator has a problem. Here are the results the calculator shows for these simple multiplications:

$$8 \times 3 = 34$$

$$9 \times 5 = 55$$

$$4 \times 2 = 18$$

$$8 \times 4 = 42$$

1. Can you figure out what Chris's calculator is wrong with the answers that the calculator shows?
2. What can Chris do to get the correct answer to 9×6 ?
3. Use words, numbers, or pictures to explain what is wrong with Chris's calculator.

4. Study the following list of numbers. Describe at least two different patterns you see in the numbers.

8 16 24 32 40 48 56 64 72 80