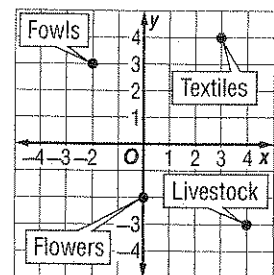# Extended-Response Test Review #2

SCORE _____

Demonstrate your knowledge by giving a clear, concise solution to each problem. Be sure to include all relevant drawings and justify your answers. You may show your solution in more than one way or investigate beyond the requirements of the problem. If necessary, record your answer on another piece of paper.

1. A pipe extends 0.875 kilometer below the ground.

   a. In relation to the ground, what is the elevation of the pipe? Write the elevation as a fraction. Explain how you found your answer.

   b. The elevation of an underground river is $2\frac{5}{12}$ kilometers below the ground. What is the elevation of the underground river as a decimal? Explain how you found your answer.

   c. The elevation of the lowest part of a cave is $-3\frac{1}{3}$ kilometers. How does this elevation compare to that of the underground river?

2. The locations of some buildings at the county fair are shown on the coordinate plane.

   a. Which ordered pair names the location of the textiles building?

   b. Which ordered pair names the location of the flowers building?

   c. An information booth will be added at $(-3, 2)$. To which building will the information booth be closest?

   d. Three food booths will be added. Describe three possible locations given by an ordered pair in which $y = -1$.

Vocabulary Test Review #2

absolute value	opposites	repeating decimal
bar notation	positive integer	terminating decimal
integer	quadrants	
negative integer	rational number	

Choose from the terms above to complete each sentence.

1. The absolute value of a negative integer is a _____.

1. _____

2. The integers −10 and 10 are _____.

2. _____

3. The _____ of −5 is 5.

3. _____

4. Any number that can be written as a fraction is a(n) _____.

4. _____

5. Repeating decimals can be expressed exactly using _____.

5. _____

6. A(n) _____ is a decimal whose division ends.

6. _____

7. 0.8585858585… is an example of a(n) _____.

7. _____

Define each term in your own words.

8. quadrants

8. _____

9. integer

9. _____