

### Chapter 4 - Study Guide- Decimal Concepts & Coordinate Grids

1. Write the decimal in words.

a.) 0.9 \_\_\_\_\_

b.) 4.19 \_\_\_\_\_

c.) 2.092 \_\_\_\_\_

2. Write the decimal using numerals (numbers).

a.) forty-seven and twenty-three hundredths. \_\_\_\_\_

b.) seven hundred twenty-one thousandths. \_\_\_\_\_

c.) seven and four hundredths. \_\_\_\_\_

3. Make the following changes to the number 2.841

a) Make the 4 worth 100 times as much.

b.) make the 2 worth  $\frac{1}{100}$  as much.

c.) Make the 8 worth  $\frac{1}{100}$  as much.

d.) Make the 1 worth 100 times as much.

Write the new number: \_\_\_\_\_

Write the new number in words: \_\_\_\_\_

4. Write *greater than*, *equal to*, or *less than* to make the number sentence true.

a.) 0.181 \_\_\_\_\_ 0.192

b.) 13.4 \_\_\_\_\_ 0.341

c.) 2.79 \_\_\_\_\_ 2.97

d.) 0.362 \_\_\_\_\_ 0.47

5. Shade the thousandths grid to represent the decimal. Then write the decimal in expanded form.

0.178

Expanded form: \_\_\_\_\_

6. Shade the thousandths grid to represent the decimal. Then write the decimal in expanded form.

0.801

Expanded form: \_\_\_\_\_

7. Round each number to the place listed.

Start number	Nearest hundredth	Nearest tenth	Nearest whole number
4.894			
7.213			
0.421			

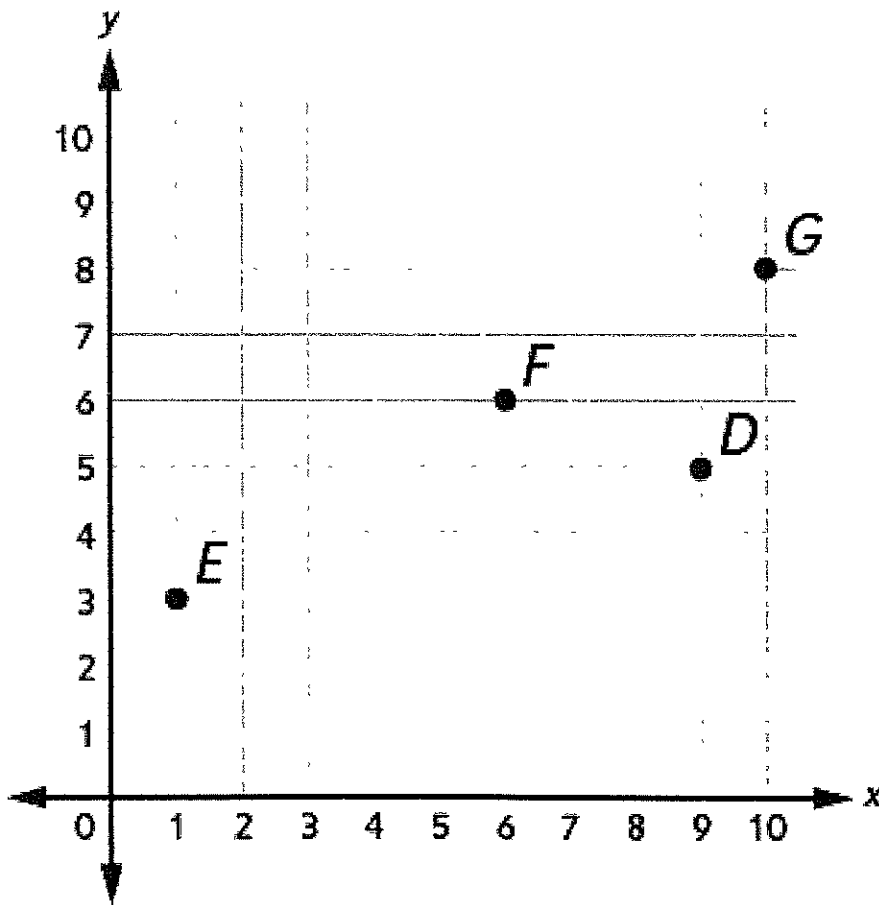
8. Explain how you rounded 0.421 to the nearest whole number.

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9. Write the ordered pair for each point shown on the coordinate grid below.



D: (\_\_\_\_, \_\_\_\_)

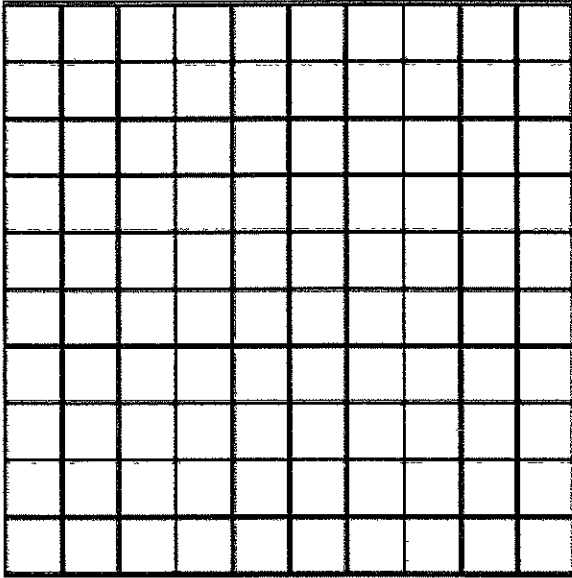
E: (\_\_\_\_, \_\_\_\_)

F: (\_\_\_\_, \_\_\_\_)

G: (\_\_\_\_, \_\_\_\_)

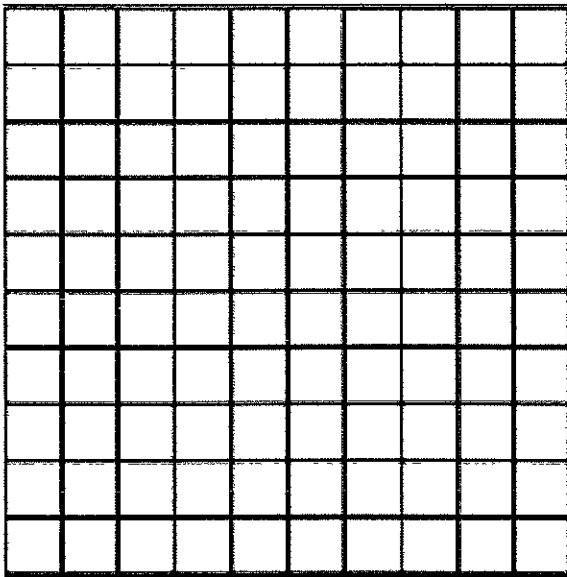
10. Shade the grid in one color to show the first addend. Shade the grid in a second color to show the second addend. Write the sum to complete the number sentence.

$$0.64 + 0.28 = \underline{\hspace{2cm}}$$



11. Shade the grid to show the starting number. Cross out or shade darker to show the number being taken away. Write the difference to complete the number sentence.

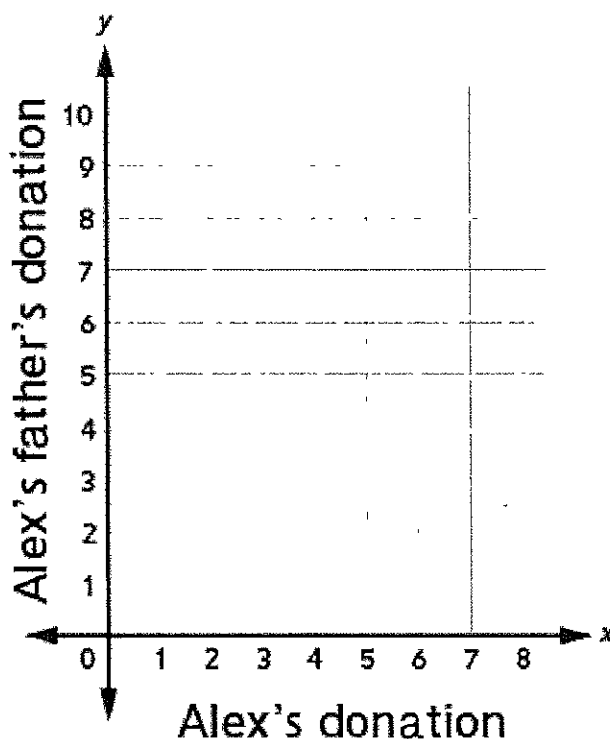
$$0.79 - 0.56 = \underline{\hspace{2cm}}$$



12. Alex is donating money to a pet adoption agency. His father has agreed to donate the same amount that Alex donates. The table below shows some of the possible amounts of money they may donate.

- a.) Write the data in the table below as ordered pairs.
- b.) Plot the ordered pairs as points and use a straightedge to connect the points.

Alex's donation ( $x$ )	Alex's father's donation ( $y$ )
1	1
2	2
3	3
4	4
5	5



13. Make an estimate. Then solve and show your work. Use your estimate to check and see if your answer makes sense.

<p>a.) <math>2.3 + 8.7 =</math> _____</p> <p>Estimate: _____</p>	<p>b.) <math>6.34 + 7.91 =</math> _____</p> <p>Estimate: _____</p>
<p>c.) <math>11.2 - 5.8 =</math> _____</p> <p>Estimate: _____</p>	<p>d.) <math>13.27 - 7.56 =</math> _____</p> <p>Estimate: _____</p>