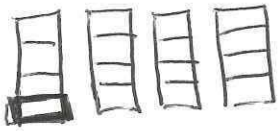
Name Answers

Chapter 6 – Cumulative Review (chapters 1-6)

1.) Austin had 4 quarts of potato soup to make 16 servings. He wants to use the same amount of soup for each serving. How much of one quart should he make each serving? Use a picture, number model, or words to show your work.

$4 \div 16$



Austin should use $\frac{1}{4}$ quart of potato soup per serving

2.) Write a number story that can be modeled by the number sentence $3 \div 7 = \frac{3}{7}$.

I have 3 cookies. I want to divide my cookies among my 7 friends. How much cookie will each of my friends get?

3.) Paul needs to read 212 pages of a book in 15 days. He wants to read the same number of pages each day. How much should he read each day?

Number model: $212 \div 15$

Paul should read 14 R2 pages each day

$$\begin{array}{r} 14 \text{ R2} \\ 15\overline{)212} \\ -15\downarrow \\ \hline 62 \\ -60 \\ \hline 2 \end{array}$$

Explain what you did with the remainder and why.

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

a) 4.16 is greater than 4.159

b) 7.1 is greater than 7.039

c) 13.7 is less than 13.701

d) 0.517 is less than 2.1

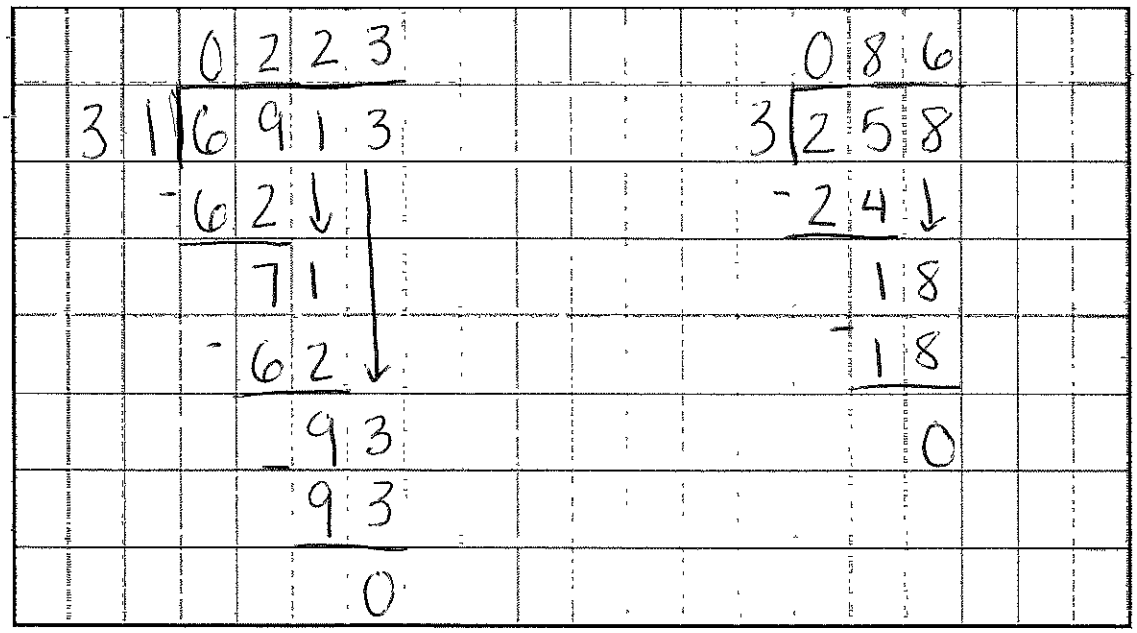
5.) Make an estimate and then solve. Show your work on the grid. Use your estimate to check that your answer makes sense.

a) 6,913 ÷ 31 = 223

b) 258 ÷ 3 = 86

Estimate: 6,000 ÷ 30 = 200

Estimate: 300 ÷ 3 = 100



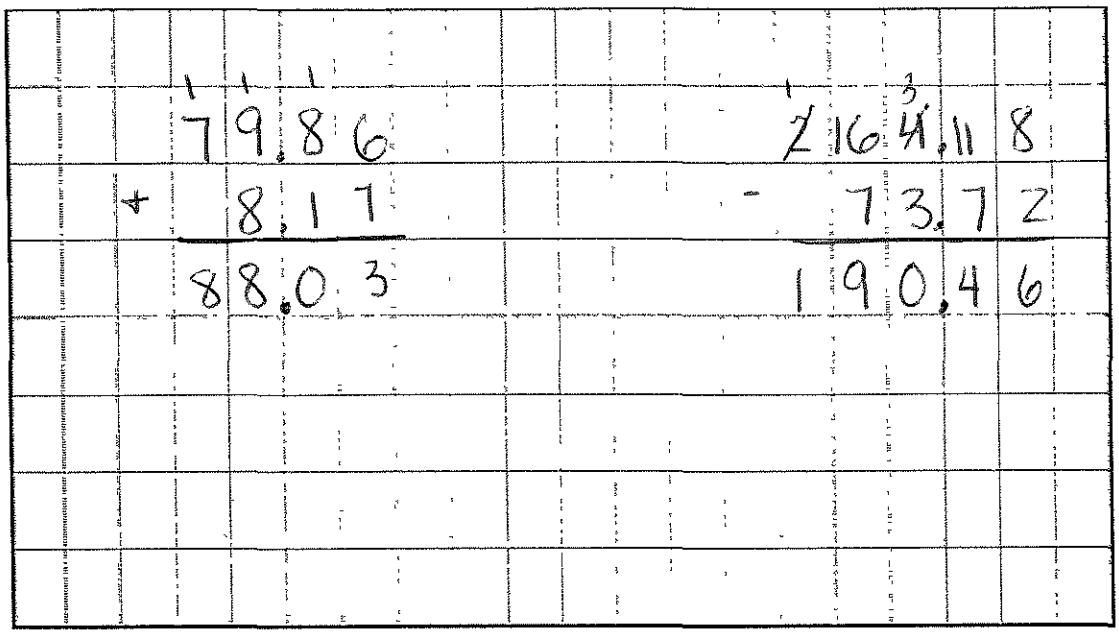
6.) Make an estimate and then solve. Show your work on the grid. Use your estimate to check that your answer makes sense.

a) 79.86 + 8.17 = 88.03

Estimate: 80 + 8 = 88

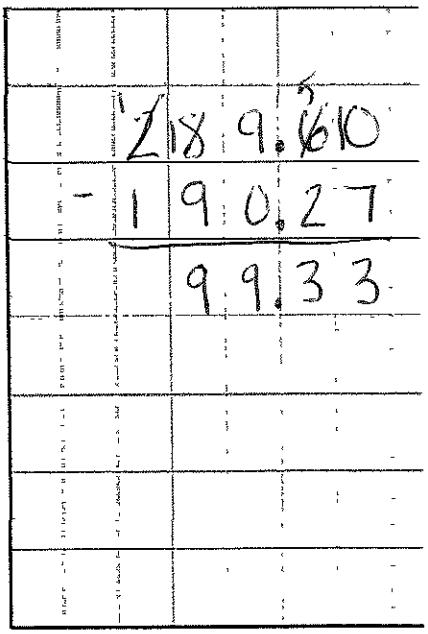
b) 264.18 – 73.72 = 190.46

Estimate: 260 – 70 = 190



7.) 289. 6 – 190.27 = 99.33

Estimate: 290 – 190 = 100



8.) Complete the table below.

Numeral	Number Name	Expanded Form
0.723	Seven hundred twenty three thousandths	0.7 + 0.02 + 0.003
4.109	four and one hundred nine thousandths	4 + 0.1 + 0.009
73.055	Seventy three and fifty five thousandths	(7 * 10) + (3 * 1) + (5 * 0.01) + (5 * 0.001)

9.) Round 47.5843 to the nearest.

Whole Number: 48

Tenth: 47.6

Hundreth: 47.58

Thousandth: 47.584

10.) Write the value of 4 in each of the following numbers.

a.) 413.197 400

b.) 546.821 40

c.) 714.326 4

d.) 123.456 0.4

11.) Explain what you noticed about the value of the 4s in the following numbers.

a.) 413.197 b.) 546.821 c.) 714.326 d.) 123.456

Divided by 10 each time

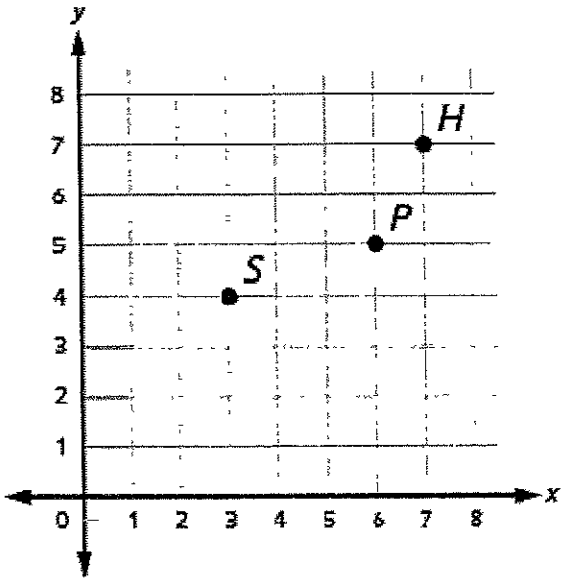
12.) Mattie is making two pitchers of juice. One pitcher calls for $4\frac{1}{2}$ cups of water. The other calls for $3\frac{2}{3}$ cups of water. How much water does Mattie need?

Number model: $4\frac{1}{2} + 3\frac{2}{3}$

Mattie needs $8\frac{1}{6}$ cups of water.

$$4\frac{1}{2}\overset{\times 3}{_{\times 3}} + 3\frac{2}{3}\overset{\times 2}{_{\times 2}} = 4\frac{3}{6} + 3\frac{4}{6} = 7\frac{7}{6} = 8\frac{1}{6}$$

13.) The grid below is a map of a town's residential district. Point S represents a school; Point P represents a post office; and Point H represents a hospital.



Write the coordinates for the school, the post office and the hospital.

S = (3, 4)

P = (6, 5)

H = (7, 7)

The town plans to build a bus station in the residential district. Planners want the bus station to be no farther than 4 blocks from the school, the post office, and the hospital. Write the coordinates for a point where the town cold build the bus station.

B = (5, 6) * answers vary

14.) Eddie was solving the problem $\frac{4}{9}+\frac{7}{12}$. He got the answer $\frac{11}{21}$.

a.) Explain how you know Eddie's answer is wrong without calculating an exact answer.

$\frac{4}{9}$ is about $\frac{1}{2}$ and $\frac{7}{12}$ is about $\frac{1}{2}$. $\frac{11}{21}$ is also about $\frac{1}{2}$. $\frac{1}{2}+\frac{1}{2}\neq\frac{1}{2}$

He added the numbers without a common denominator.

b.) Solve the problem $\frac{4}{9}+\frac{7}{12}=$ _____.

$\frac{4\times4}{9\times4}+\frac{7\times3}{12\times3}=\frac{16}{36}+\frac{21}{36}=\frac{37}{36}=1\frac{1}{36}$