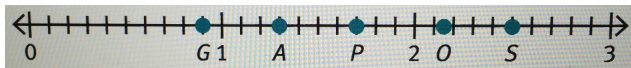


1.) The table shows the price of some fruit at Mari's grocery store. Plot each decimal on the number line below. Write the first letter of the name of the fruit above the point representing its price.

Mari's Grocery Store	
Fruit	Price per Pound
Apple	\$1.30
Grapes	\$0.89
Oranges	\$2.15
Pear	\$1.69
Strawberries	\$2.50



2.) Order the numbers in each group from greatest to least.

- a. 47, 63.5, 47.8, 63, 48.1
- b. 8.9, 8.19, 8.91, 8.098, 8.1
- c. 20, 2.05, 19.06, 20.005, 1.905
- a. 63.5, 63, 48.1, 47.8, 47**
- b. 8.91, 8.9, 8.19, 8.1, 8.098**
- c. 20.005, 20, 19.06, 2.05, 1.905**

3.) The following numbers are in order from least to greatest. There is a missing number. Which of the following could be the missing number? 12, 12.05, _____, 12.1

- A. 12.051**
- B. 12.15
- C. 12.04
- D. 12.049

4.) Find the sum or difference. Use any method you like.

- a. $18.05 + 56.95 = 75$
- b. $23.202 + 10 + 0.839 + 5.5 = 39.541$
- c. $36 - 19.83 = 16.17$
- d. $1.005 - 0.2 = 0.805$
- e. $12.78 + 0.02 + 88 = 100.8$

5.) The total resistance in an electrical circuit consisting of three heaters is 13.62 ohms. The resistances of two of the heater elements are 4.98 ohms and 5.1 ohms. What is the resistance of the third heater element?

- A. 3.54 ohms**
- B. 8.52 ohms
- C. 10.08 ohms
- D. 23.7 ohms

6.) Two incoming currents at a node in an electrical circuit are 0.59 amps and 0.47 amps. One of the outgoing currents is 0.7 amps. Find the number of amps in the second outgoing current.

0.36 amps

7.) Find the products.

- a. $7.4 \times 8 = 59.2$
- b. $3.59 \times 6.2 = 22.258$
- c. $9.3 \times 0.05 = 0.465$
- d. $2.75 \times 12.5 = 34.375$

8.) Find the quotients.

- a. $6168 \div 257 = 24$
- b. $2,078,550 \div 310 = 6,705$
- c. $7074 \div 90 = 78.6$
- d. $1230 \div 375 = 3.28$

9.) Caroline spent \$78 on 4 T-shirts. How much did each T-shirt cost?

\$19.50 per shirt

10.) Find the quotients.

- a. $490.2 \div 76 = 6.45$
- d. $539.28 \div 6.42 = 84$
- b. $309 \div 0.05 = 6,180$
- e. $11.025 \div 10.5 = 1.05$
- c. $24.941 \div 4.9 = 5.09$

11.) Chance spent \$1,189 on textbooks during his freshman year at college. If he bought 13 textbooks, what was the average cost of each textbook?

91.4615385 = \$91.46 for each book

12.) There are 117 students in the after-school program. Each student is involved in one activity. Which of the following is a possible number of activities and students per activity?

- A. 3 students and 13 activities
- B. 9 students and 13 activities**
- C. 9 students and 17 activities
- D. 17 students and 100 activities

13.) Evaluate the expression $2^4 + 3^3$

- A. 17
- B. 43**
- C. 156
- D. 361

14.) Attend to precision. Fiona has 18 red carnations, 27 white carnations, and 36 blue carnations. She wants to make arrangements of red, white, and blue carnations. She plans to use all of the flowers and to have the same number of each color in each arrangement. If she makes the greatest number of arrangements possible, then how many blue carnations will be in each arrangement?

- A. 2
- B. 3
- C. 4**
- D. 9

15.) Find the least common multiple of each set of numbers.

- a. 6, 8 = **24**
- b. 9, 15 = **45**
- c. 12, 15 = **60**
- d. 6, 8, 10 = **120**
- e. 6, 5, 9 = **90**

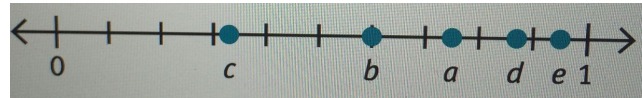
16.) The store manager wants to order the same number of jars of peanut butter as jars of jelly. Peanut butter comes in a box of 15 jars. Jelly comes in a box of 18 jars.

a. What is the smallest number of peanut butter jars and jelly jars the manager must buy to have the same number of peanut butter jars as jelly jars? **90 jars**

b. How many boxes of peanut butter should the manager order, and how many boxes of jelly should the manager order? **6 boxes of peanut butter jars, 5 boxes of jelly jars**

17.) Model with mathematics. Draw a number line below and plot points on it to represent each of the following fractions. Write the appropriate letter over each point.

- a. $\frac{3}{4}$
- b. $\frac{5}{8}$
- c. $\frac{1}{3}$
- d. $\frac{7}{8}$



18.) Reason quantitatively. Which fraction is greater, $\frac{7}{30}$ or $\frac{11}{30}$? How do you know?

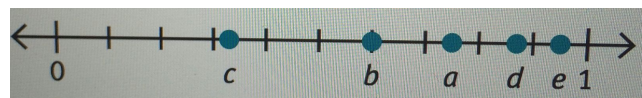
11/30, since both fractions have the same denominator, the fraction with the greater numerator is greater.

19.) Compare the fractions. Use $<$, $=$, $>$.

- a. $\frac{3}{8}$ $\frac{3}{8}$ **>**
- b. $\frac{7}{9}$ $\frac{49}{63}$ **=**
- c. $\frac{3}{4}$ $\frac{30}{36}$ **<**
- d. $\frac{2}{3}$ $\frac{3}{4}$ **<**
- e. $\frac{7}{6}$ $\frac{17}{18}$ **>**

20.) Model with mathematics. Draw a number line below and plot points on it to represent each fraction. Write the appropriate letter over each point.

- a. $10\frac{3}{4}$
- b. $11\frac{10}{20}$
- c. $10\frac{1}{2}$
- d. $11\frac{9}{15}$
- e. $10\frac{30}{100}$



21.) Which number is greater than $\frac{53}{7}$?

- A. $5\frac{3}{7}$
- B. $7\frac{5}{10}$
- C. $7\frac{4}{7}$
- D. $7\frac{6}{7}$**

22.) Estimate the product $\frac{7}{15} \times 35$. Explain how you made your estimate.

About 18. $\frac{7}{15}$ is about $\frac{1}{2}$. $\frac{1}{2} \times 36 = 18$.

23.) Divide. Write the quotient in simplest form.

- a. $\frac{2}{3} \div \frac{2}{3} = \frac{10}{9} = 1\frac{1}{9}$
- b. $\frac{7}{8} \div \frac{1}{4} = \frac{7}{2} = 3\frac{1}{2}$
- c. $\frac{3}{5} \div \frac{9}{10} = \frac{2}{3}$

24.) Savannah has $\frac{3}{4}$ of a cake to serve equally among 4 people. How much of the original cake will each person get?

- A. $\frac{1}{4}$ B. $\frac{1}{3}$ **C. $\frac{3}{16}$** D. $\frac{2}{3}$

25.) Divide. Write the quotient in simplest form.

a. $\frac{7}{8} \div 1\frac{1}{2} = \frac{7}{12}$

b. $3\frac{1}{5} \div 2\frac{4}{5} = \frac{8}{7} = 1\frac{1}{7}$

c. $12 \div 3\frac{3}{8} = \frac{32}{9} = 3\frac{5}{9}$

d. $4\frac{2}{7} \div 1\frac{7}{8} = \frac{16}{7} = 2\frac{2}{7}$

e. $\frac{3}{4} \div 2\frac{5}{8} = \frac{5}{16}$

f. $5\frac{3}{7} \div 6\frac{1}{3} = \frac{6}{7}$

26.) India has a 12-foot board. How many 18-inch pieces can she cut from the board?

- A. 1 C. 6
B. $1\frac{1}{2}$ **D. 8**

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