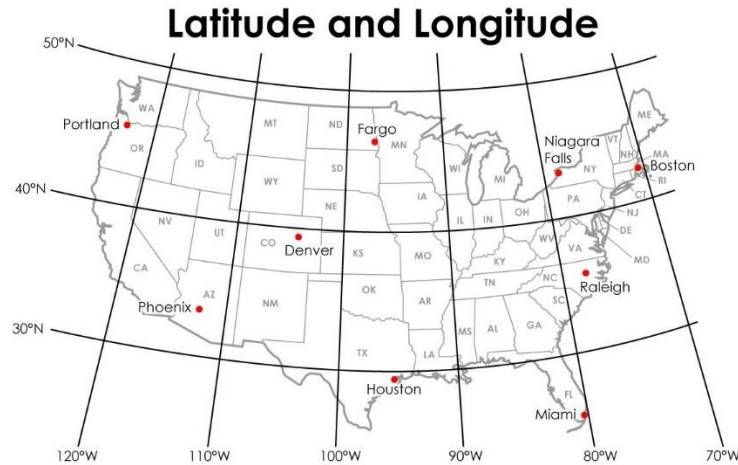


## Math 4c. Homework 17.

1. Write the names of the cities next to their coordinates.



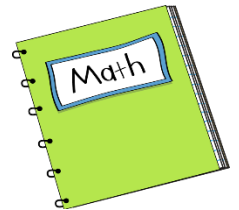
- |                                         |                                        |
|-----------------------------------------|----------------------------------------|
| 1. 33°N latitude, 112°W longitude _____ | 4. 29°N latitude, 95°W longitude _____ |
| 2. 35°N latitude, 78°W longitude _____  | 5. 43°N latitude, 79°W longitude _____ |
| 3. 45°N latitude, 122°W longitude _____ | 6. 25°N latitude, 80°W longitude _____ |

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2. Find the mistakes, write correct answer:

- a.  $0.134 \cdot 1000 = 13.4$
- b.  $16.12 : 4 = 4.3$
- c.  $1.06 + 0.4 = 1.1$
- d.  $5.72 - 0.2 = 5.7$
- e.  $16.5 : 0.1 = 1.65$

3. If Mark will buy 15 notebooks he will have 7 dollars left, if he will buy 20 such notebooks he will need 8 more dollars. How much money does Mark have?



4. Compare, if possible:

$$|7 + 3| \quad |7| + |3|$$

$$|7 - 3| \quad |7| - |3|$$

$$|7 - 3| \quad |3 - 7|$$

$$|3 - 7| \quad |3| - |7|$$

$$|a - b| \quad |b - a|$$

$$|7 - 3| \quad |7| + |3|$$

$$|3a| \quad 3 \cdot |a|$$

$$|a + b| \quad |a| + |b|$$

$$|b \cdot a| \quad b \cdot |a|$$

5. Which sign (+, −, ·, ÷) should be placed instead of \* to make the following equalities true statements.

$$\frac{7}{8} * 1\frac{1}{7} = 1$$

$$\frac{3}{7} * \frac{4}{7} = \frac{3}{4}$$

$$2 * 1\frac{1}{3} = \frac{2}{3}$$

$$\frac{3}{10} * \frac{5}{6} = \frac{1}{4}$$

6. Draw the coordinate system on a graph paper and using the coordinate below draw the picture connecting points in order as shown by arrows:

(-7; -2) → (-5; -3) → (-3; -3) → (-4; -4) → (-5; -8) → (-3; -9) → (1; -9) → (2; -6) → (2; -9) → (8; -9) → (8; -4) → (9; 0) → (11; -5) → (11; -1) → (8; 7) → (5; 8) → (1; 8) → (-3; 9) → (-6; 9) → (-8; 8) → (-10; 5) → (-10; 0) → (-9; -4) → (-9; -8) → (-7; -8) → (-7; -2) → (-6; 1) → (-3; -2) → (0; -2) → (1; 0) → (2; 4), (0; 7) → (-3; 8) → (-5; 7) → (-6; 1) → (-2; -4) → (0; -6) → (4; -6) → (5; -5) → (-7; 2).

7. Compute in your head, just write the answer, try to do it as fast as possible:

a.  $3.2 + 7.5$ ;

i.  $3.14 - 1.9$ ;

b.  $9.2 - 2$ ;

j.  $4.5 + 0.63$ ;

c.  $8 - 1.7$ ;

k.  $3.2 : 0.01$ ;

d.  $2.8 + 0.7$ ;

e.  $0.06 + 2.9$ ;

f.  $12.5 - 0.05$ ;

g.  $2.78 - 1.28$ ;

h.  $5.6 + 3.4$ ;

l.  $2.4 \cdot 10$ ;

m.  $5.8 \cdot 0.1$ ;

n.  $9.2 : 100$ ;

o.  $0.7 \cdot 0.4$

8. Aunt Sally asked Tom Sawyer to paint  $\frac{2}{5}$  of the whole fence. He asked his friend Ben Rogers to help him and Ben painted  $\frac{1}{4}$  of that part of the fence. What is the length of the fence if Ben painted  $2\frac{1}{2}$  m.

9. Solve the following equations:

a)  $\left|x + \frac{1}{3}\right| = 2$

b)  $\left|x - \frac{1}{5}\right| = 2$

c)  $|2y| = \frac{1}{2}$

