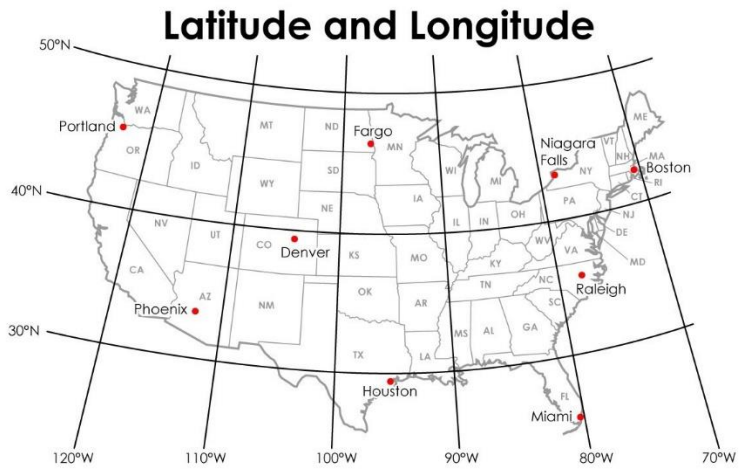
Math 4d. Homework 17.

1. Wright the names of th cities next to their coordinates.



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

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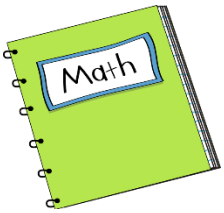
2. Find the mistakes, write correct answer:

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



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 $(+, -, \cdot, \div)$ 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. $3.2 + 7.5$;
b. $9.2 - 2$;
c. $8 - 1.7$;
i. $3.14 - 1.9$;
j. $4.5 + 0.63$;
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) $|2y| = \frac{1}{2}$