Homework 10.

1. Fill in the missing number to have the right equalities.
   Example (how you will write in your notebook):

   a. $\dfrac{3}{7} \cdot \dfrac{7}{3} = 1$

   a. $\dfrac{3}{7} \cdot \_ = 1$; *b.* $\dfrac{2}{5} \cdot \_ = 1$; *c.* $1 : \dfrac{2}{5} = \_$ *d.* $\_ \cdot \dfrac{12}{11} = 1$

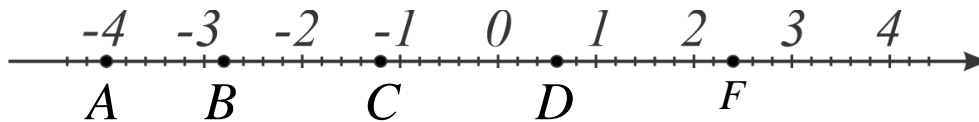   *e.* $2\dfrac{1}{2} \cdot \_ = 1$; *f.* $\_ \cdot 1\dfrac{1}{3} = 1$; *g.* $1 : \_ = \dfrac{3}{10}$ *h.* $1 : \dfrac{12}{11} = \_$

2. Find the coordinates of points:
   Example: $A(-4)$

3. In your notebook draw a line (use ruler!), mark 0, 1, 2, 3, -1, 2-, 3. Mark points
   with coordinates $A(-1)$, $B\left(-1\dfrac{1}{2}\right)$, $C\left(2\dfrac{1}{3}\right)$, $D\left(1\dfrac{1}{2}\right)$.

4. Continue numbers on both sides of the sequence by three numbers:
   Example: *a.* $-40, -39, -38, -37, -36, -35, -34, -33, -32$

   a. $..., -37, -36, -35, ...$; *b.* $...,2,3,4,5,...$; c. $..., -98, -97, -96, ...$;

5. Evaluate: **Example:** *a.* $7 + (-2) = 5$
   a. $(-10) + (+11)$; *b.* $(-7) + (-6)$; *c.* $(-4) + (+2)$;
   d. $(-12) + (+3)$; *e.* $(-15) + (+18)$; *f.* $(-11) + (-20)$;
   g. $(+20) + (-21)$; *h.* $(-100) + (-150)$; *i.* $(-3) + (+4)$;

6. Mary solved three times as many math problems as Peter did. Together they solved
   48 problems. How many problems did each of them solved.

7. There are singers and dancers in our class. $\dfrac{1}{5}$ of all singers also dance and $\dfrac{1}{4}$ of all
   dancers also sing. Are there more singers or dancers in our class?