1. Find the LCM (Least Common Multiple) and GCF (Greatest Common Factor) of the following numbers …

      a) 16 and 12   b) 24 and 8   c) 28 and 30

      d) 13 and 19   e) 99 and 231

2. In my class I will be giving quizzes several times a year. Each time I will include 8 questions on a quiz. Another teacher will be including 10 questions on each quiz in her class, but by the end of the year my and her students will all have the same number of questions. What is the least possible number of questions you and the other students will have to answer by the end of the year?

3. Compare fractions (Put = , > or < in the boxes)

    a. $\dfrac{9}{25}$ ☐ $\dfrac{8}{25}$ c. $\dfrac{101}{50}$ ☐ $\dfrac{79}{84}$

    b. $\dfrac{5}{19}$ ☐ $\dfrac{5}{12}$ d. $\dfrac{4}{5}$ ☐ $\dfrac{3}{4}$

    e. $\dfrac{5}{9}$ ☐ $\dfrac{7}{12}$ f. $\dfrac{9}{43}$ ☐ $\dfrac{18}{86}$

4. Compute the following expressions:

a) $\dfrac{2}{5} \times \dfrac{3}{4} =$

b) $\dfrac{4}{7} \times \dfrac{3}{4} =$

c) $\dfrac{5}{8} \times \dfrac{4}{15} =$

d) $\dfrac{2}{3} \div \dfrac{7}{12} =$

e) $\dfrac{11}{12} \div \dfrac{22}{4} =$

a) $\dfrac{2}{5} + \dfrac{2}{3} =$

b) $\dfrac{7}{16} + \dfrac{1}{4} =$

c) $\dfrac{5}{8} - \dfrac{1}{12} =$

5. Solve the following equations:

a) $\dfrac{3}{4} + y = 1$

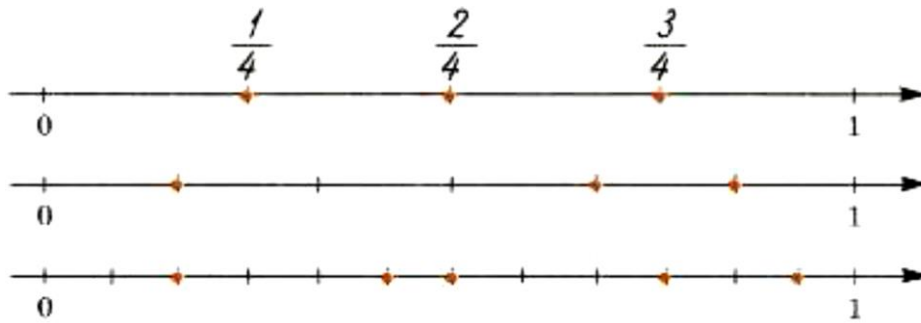b) $\dfrac{5}{7} - x = \dfrac{4}{7}$

c) $\dfrac{3}{x} = 7$

d) $\dfrac{5x}{7} = 15$

e) $-3 * (2x - 4) = 9$

f) $2x + 4 - 6x - (-3) = -13$

6. On the picture below, put the corresponding fractions above each marked point:

$$\frac{1}{4} \qquad \frac{2}{4} \qquad \frac{3}{4}$$

7, The perimeter of a rectangle is 66cm. The length of one of its sides is $\frac{3}{11}$ of the perimeter. Find the area of this rectangle. (The perimeter of any polygon is the sum of the lengths of all the sides.)