

1. Mark the following fractions on the number line (draw the number line in your notebook):

$$\frac{1}{5}, \quad \frac{3}{5}, \quad \frac{3}{3}, \quad \frac{7}{5}, \quad \frac{10}{5}$$

2. Fill the empty spaces for fractions:

$$\frac{2}{3} = \frac{\quad}{9} = \frac{\quad}{21} = \frac{4}{\quad} = \frac{36}{\quad}$$

3. Bring the fractions to the common denominator:

$$a. \frac{3}{5} \text{ and } \frac{2}{3}; \quad b. \frac{3}{4} \text{ and } \frac{5}{16}; \quad c. \frac{1}{4} \text{ and } \frac{1}{6};$$

4. Simplify (reduce) fractions:

$$\text{Example: } \frac{7}{21} = \frac{1 \cdot 7}{3 \cdot 7} = \frac{1}{3}$$

$$\frac{2}{8}; \quad \frac{14}{21}; \quad \frac{7}{49}; \quad \frac{3}{5}; \quad \frac{6}{8};$$

5. Evaluate:

$$a. \frac{1}{5} + \frac{1}{2}; \quad b. \frac{2}{5} + \frac{3}{10}; \quad c. \frac{5}{9} - \frac{1}{3};$$

6. An apple worm was eating an apple. On the first day it ate half of the apple, on the second day it ate half of the rest, and on the third day it ate half of the rest again. On the fourth day, it ate all the leftovers. What part of the apple did it eat on the fourth day?



7. There are bicycles and tricycles in a daycare center, 21 in total. The total number of wheels on all tricycles and bicycles is 55. How many tricycles and how many bicycles are there in the daycare? (Hint: how many wheels would be there if there were only tricycles?)
8. Robert did his math assignment, but he stained his notebook. Each drop of ink covers the same digit, which is greater than 0. Please, restore his homework!

$$(\star \star + \star \star + 1) \cdot \star = \star \star \star$$