Fractions:

1. Mark following fractions on the number line:

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

0 ————|————|————|————|————→
       1   2   3   4
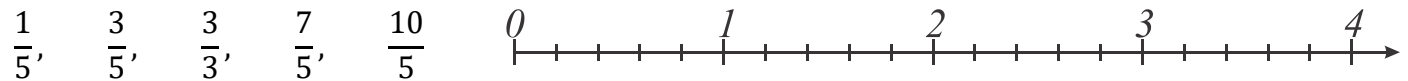
2. Rewrite these expression of division as fractions:

Example: $3 \div 5 = \frac{3}{5}$

$9 \div 5 =$ $5 \div 11 =$ $2 \div 6 =$

3. Compare:

a) $\frac{3}{5} \quad \frac{2}{5}$ b) $\frac{3}{5} \quad \frac{3}{8}$ c) $\frac{3}{6} \quad \frac{1}{2}$

d) $\frac{1}{5} \quad \frac{5}{1}$ e) $\frac{4}{12} \quad \frac{3}{4}$ f) $\frac{2}{11} \quad \frac{1}{12}$

g) $\frac{4}{7} \quad \frac{1}{2}$ h) $\frac{4}{9} \quad \frac{4}{10}$

4. Calculate:

$$\frac{1}{5} + \frac{1}{5} + \frac{1}{5} =$$

$$\frac{2}{7} + \frac{1}{7} =$$

$$\frac{7}{9} - \frac{3}{9} =$$

- A part of something which is not 1, sometimes can be considered as a single object.

5. In the school cafeteria, there are 12 tables. There are 10 seats at each table. At lunch time $\frac{4}{5}$ of all seats were occupied by students. How many students were in the cafeteria during the lunch?

6. I have 30 pencils. During my math class, I distributed 10 pencils to students who forgot to bring theirs, what fraction of my pencils I distributed?

If I have 15 students in my class, what fraction of students forgot their pencils?
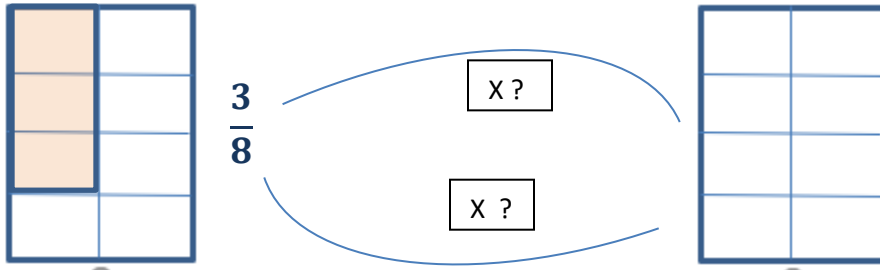
Equivalent fractions

What part of the first bar is blue? $\frac{1}{3}$

What part of the second bar is blue? $\frac{4}{12}$

7. **S**plit each section of the second rectangle into 2 and find the fraction of small squares that is equivalent to the fraction of squares in the first figure

$\frac{3}{8}$ X ?   X ?

8. **Simplify:**

     a) $\frac{4}{20}$ b) $\frac{6}{8}$ c) $\frac{12}{18}$

     f) $\frac{12\times5+12\times9}{12\times21} =$ g) $\frac{14\times5+14\times2}{28} =$