Math 4. Homework #8. Assigned on November 12.

Due on November 19th.

school nova. ™

1. Compute:

a) $\dfrac{1}{8} + \dfrac{3}{7} =$ b) $\dfrac{1}{2} + \dfrac{5}{6} =$ c) $\dfrac{2}{3} + \dfrac{2}{5} =$ d) $\dfrac{7}{24} + \dfrac{1}{4} =$

2. Find the missing fraction:

a) $\dfrac{1}{8} \times ? = \dfrac{5}{64}$ **b)** $\dfrac{3}{7} \times ? = 1$ **c)** $\dfrac{2}{11} \times ? = \dfrac{6}{44}$ **d)** $\dfrac{2}{9} \times ? = 2$
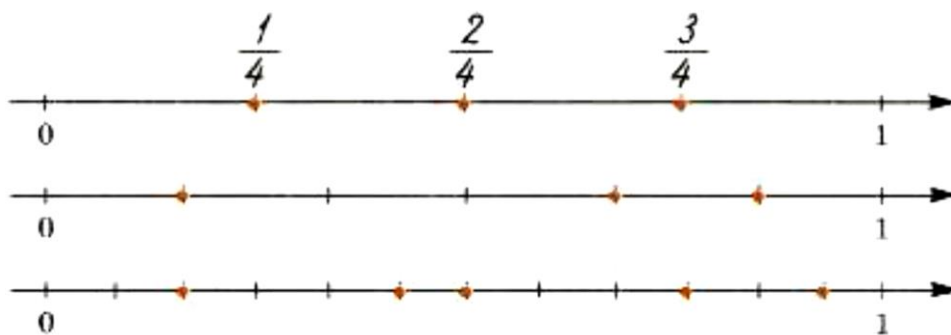
3. Solve the following equations:

a) $\dfrac{1}{3} + z = \dfrac{2}{3}$ b) $\dfrac{3}{4} + y = 1$ c) $\dfrac{5}{7} - x = \dfrac{4}{7}$

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

5. There are 80 penguins in a zoo and $\frac{3}{4}$ of them love tuna. While 47 penguins love red tuna, only 42 love yellow tuna. How many penguins love both kinds of tuna?

6. Solve

a. There are 100 fourth graders in an elementary school and $\frac{3}{4}$ of them went to the field trip. How many students went to the field trip?

b. There are 100 fourth graders in an elementary school and 20 students took part in a math competition. What part of the students participated in the math competition?

c. Sixty fourth graders like the "Harry Potter" movie. This is $\frac{3}{5}$ of the number of students in the 4th grade. How many students are there in the 4th grade?

7. *You need to cut $\frac{1}{2}$ m from a rope $\frac{2}{3}$ m long. You don't have any tools to do the measurements. How you can do it?
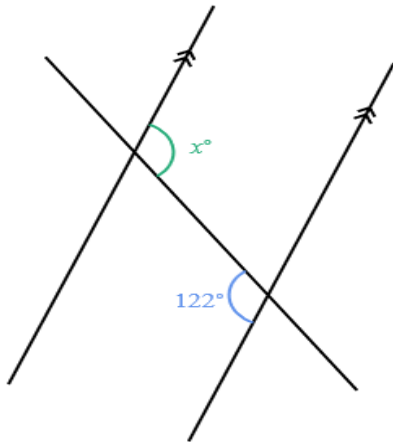
8. Simplify expressions:

a. x + 5 - 2x - 7 + 6x + 24 -15
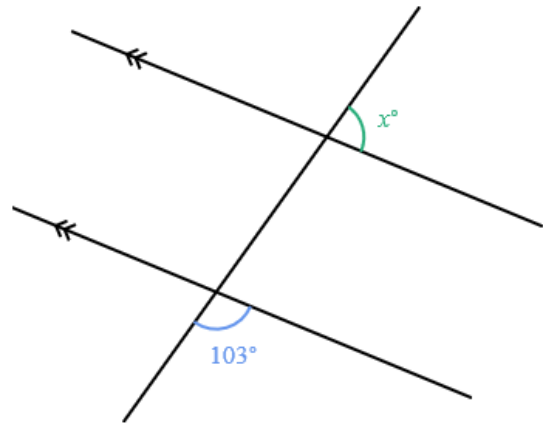
b. 3y - 5x - 8 + 23 + 45x - 6y + 7x + 23y +99
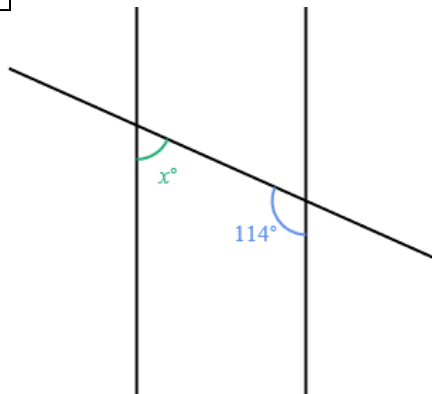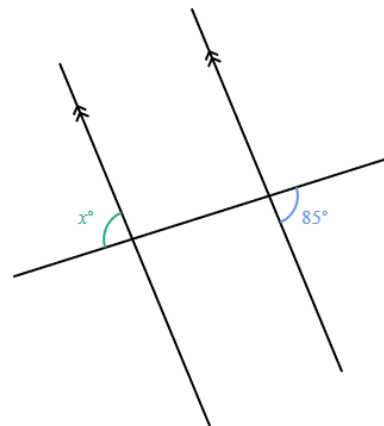
9. Find x

A

$x = \boxed{}°$

122° $x°$

B

$x = \boxed{}°$

$x°$ 103°

C

$x = \boxed{}°$

$x°$ 114°

D

$x = \boxed{}°$

$x°$ 85°

Review of LCM and GDF and Venn Diagrams

a) Show Venn Diagram of prime factors for 1024 and 512
b) Write a set A of prime factors for 1024
c) Write a set B of prime factors for 512
d) Write the set $C = A \cap B$
e) Write the set $D = A \cup B$
f) Determine GCD and LCM