Math 4. Homework #9.

1. Compute:

a) $\dfrac{1}{8} + \dfrac{3}{7} =$

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. **Compute** *(remember to simplify):*

$$\left(\dfrac{1}{3} + \dfrac{2}{9}\right) \div \left(\dfrac{9}{10} - \dfrac{2}{5}\right) =$$

$$\left(4 - \dfrac{2}{3}\right) \times \left(1\dfrac{1}{2} - \dfrac{3}{4}\right) =$$
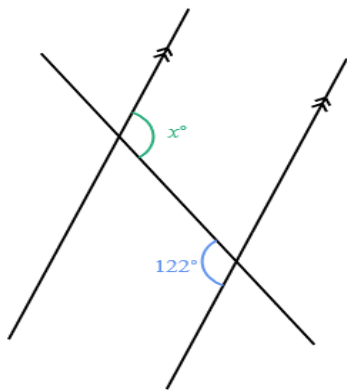
4. Solve

a. There are 100 fourth graders in an elementary school and $\dfrac{3}{4}$ 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?
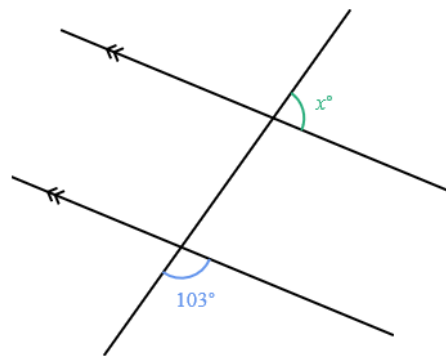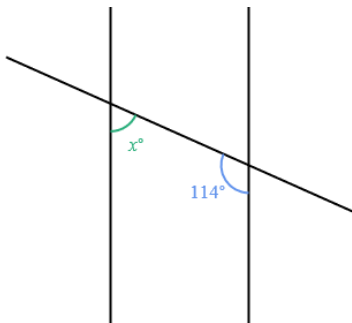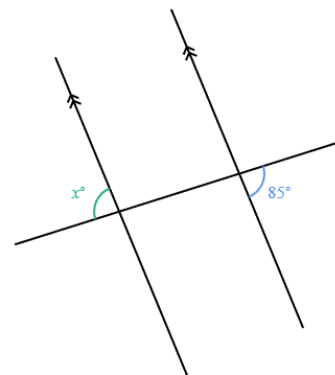
5. Find x

A

$x = \boxed{}°$

B

$x = \boxed{}°$

C

$x = \boxed{}°$

D

$x = \boxed{}°$

6. Simplify:

(a) $\dfrac{5500}{9500} =$

(b) $\dfrac{1485}{1755} =$

(c) $\dfrac{5(39-a)+b(39-a)}{5+b} =$

(d) $\dfrac{a-ab}{1-b} =$

7. A glass holds 200 ml of milk. What fraction of the glass should be filled with milk to get 160 ml?

8. **Solve the following equations (hint: do the substitution):**

$$(15 - y) \times 8 = 48$$

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