

Math 4a. Homework 7.

1. Evaluate;

$$a. \frac{4 + \frac{1}{\frac{1}{2} - \frac{1}{3}}}{4 - \frac{1}{\frac{1}{2} - \frac{1}{3}}};$$

$$b. 1 - \frac{1}{1 + \frac{1}{2}};$$

$$d. 1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{2}}}$$

2. Write the expressions as fractions and evaluate:

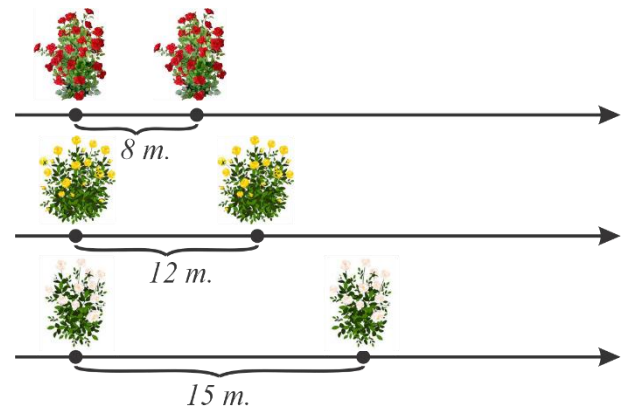
$$a. 5:15 \cdot 3;$$

$$b. (21 \cdot 18):14;$$

$$c. 50:(16 \cdot 25);$$

$$d. (12 \cdot 15):40;$$

3. In a garden, there are red, yellow, and white rose bushes. At the beginning of the garden, red, yellow, and white bushes are planted in a row. Then, red roses are planted every 8 meters, yellow roses every 12 meters, and white roses every 15 meters, continuing until all three types of bushes are again planted in a row at the end of the garden. How long is this garden, and how many red, yellow, and white roses are planted there?



4. A florist has 36 roses, 90 lilies, and 60 daisies. What is the largest number of bouquets he can create from these flowers, evenly dividing each kind of flowers between them?
5. In the school cafeteria, there are 12 tables. There are 10 seats at each table. At the lunchtime $\frac{4}{5}$ of all sits were occupied by students. How many students were in the cafeteria?
6. Melon weighs 7 pounds, and the watermelon is $1\frac{1}{5}$ times heavier. How many pounds is watermelon is heavier than the melon?
7. In two rooms, there were 68 people altogether. After 25 people left one room and 35 left the other, the number of people in each room became equal. How many people were originally in each room?