

Math 4a. Homework 19.



1. Draw two different rectangles, so that the ratio of the bigger side to the smaller side is 3 to 2.
2. The ratio of the sides of the rectangle is 5 to 3. The length of the longer side is 15. What is the length of the shorter side?
3. To do her homework, Julia solved math problems, wrote an essay, and did a history project. It took her 2 hours and 15 minutes to finish all the assignments. The ratios of the times she spends doing math, writing the essay, and doing history project are 3:2:1. How much time did she spend for each of her subjects?
4. Usually, it takes Peter 1 hour and 20 minutes to drive to work. Yesterday, due to bad weather, Peter slowed down by 10 km/h and took him 1.5 hours to get to work. What is the distance between Peter's house and his work?
5. Evaluate (hint: represent as fractions, for example $5.7 = \frac{57}{10}$), answer is 1.2 :

$$\frac{0.19:0.03 \cdot 0.75 \cdot 10.8}{1.2 \cdot 2.5 \cdot 5.7:0.4}$$

6. Solve the equations:

a. $0.68 - y = 0.6;$

b. $4.2 + a = 5;$

c. $5.4 - b = 1.4$

d. $2:a = 0.2;$

e. $x \cdot 0.1 = 0.8;$

f. $y:0.2 = 10$

7. Evaluate:

a. $-(-8) + 3;$

b. $-(12 + (-1));$

c. $-(-10) + (-6);$

d. $-((-3) + 1);$

e. $-((-20) + (-10));$

f. $-(-(6 + 4));$