

Name: _____

1. Linda bought yellow, green, red, and blue balloons for her birthday. She bought 12 yellow balloons, 2 less green balloons than yellow, number of red balloons was the half of the number of yellow and green balloons altogether, and number of blue balloons was $\frac{3}{4}$ of the number of yellow balloons. $\frac{1}{3}$ of all balloons she tied to her door and the rest – to her mailbox. How many balloons did Linda tie to her mailbox?

2. Evaluate:

a. $\frac{2}{3} + \frac{5}{6} - \frac{1}{4} =$

- b. Evaluate as more convenient:

$3\frac{4}{5} - 1.8;$ $2.2 \div \frac{11}{15};$ $4.2 \div 3\frac{1}{2};$ $5.384 - 4\frac{3}{20};$

3. The distance between two cities is 400.4 km. At the same time a car and a bus started moving toward each other from these cities. The speed of the car is 82.5 kmph, the speed of the bus is $\frac{11}{15}$ of the speed of the car. Which distance bus will travel before it will meet the car?

4. Find:

- a. 1% from 100
- b. 7% from 200
- c. 20% from 15

5. Find a number, if

- a. 1% of it is 2;
- b. 10% of it is 12;
- c. 15% is 150;

6. Evaluate.

$$125 - (-5) + 33 - 41 - 500;$$

7. Find LCM and GCD(GCF) for

a. 24 and 36;

b. 42 and 30;

8. 3 identical books and 5 identical notebooks costs 95 dollars, but 1 same book and 2 same notebooks cost 33 dollars. How expensive are one book and one notebook?

9. Solve the equations:

a. $5y + 3 = 10y - 12$

b. $3(2x + 3) = 27$

c. $5z - 20 = \frac{1}{3}(6x + 12)$