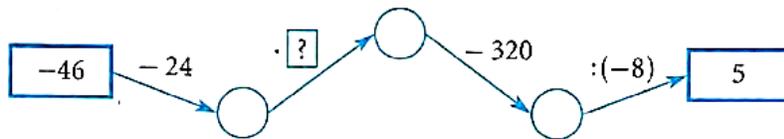
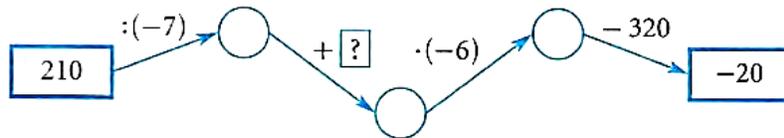
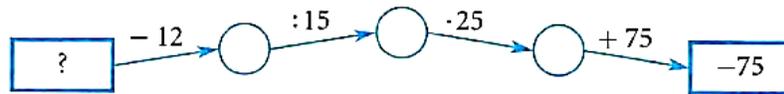


Math 4d, Homework 13.



- There are candies in box. If each kid will take 4 candies, 19 candies will be left in the box. If each kid will take 5 candies, there will be lacking 2 candies. How many candies are there in the box? How many kids are at the party?
- On the lawn grew 35 yellow and white dandelions. After eight whites flew away, and two yellows turned white, there were twice as many yellow dandelions as white ones. How many whites and how many yellow dandelions grew on the lawn at the beginning?
- What number should be placed instead of “?” ?



4. Solve the following equation:

a. $3x + 14 = 35$

b. $\frac{1}{2}x + 9 = 17$

5. Solve the following equations:

a. $\left|x + \frac{1}{3}\right| = 2;$

b. $\left|x - \frac{1}{5}\right| = 2;$

c. $|2y| = \frac{1}{2}$

6. Evaluate:

a. $\frac{1}{2} \cdot \frac{2}{3} \cdot \frac{3}{4} \cdot \frac{4}{5};$

b. $\frac{6}{7} \cdot \frac{7}{8} \cdot \frac{8}{9} \cdot \frac{9}{10} \cdot \frac{10}{11};$

c. $\frac{1}{2} \cdot \frac{2}{3} \cdot \frac{3}{4} \cdot \dots \cdot \frac{23}{24} \cdot \frac{24}{25};$

d. $1\frac{2}{2} \cdot 1\frac{1}{3} \cdot 1\frac{1}{4} \cdot 1\frac{1}{5};$

e. $\left(1 + \frac{1}{4}\right) \cdot \left(1 + \frac{1}{5}\right) \cdot \left(1 + \frac{1}{6}\right) \cdot \left(1 + \frac{1}{7}\right) \cdot \left(1 + \frac{1}{8}\right);$

f. $\left(1 - \frac{1}{2}\right) \cdot \left(1 - \frac{1}{3}\right) \cdot \left(1 - \frac{1}{4}\right) \cdot \dots \cdot \left(1 - \frac{1}{99}\right) \cdot \left(1 - \frac{1}{100}\right);$

7. A store is giving rewards to its customers at the register. Every 15th receives a free lollipop, every 24th receives a free chocolate bar. During that day 1000 customers visited the store. How many of them have received ...

a) a free lollipop?

b) a free chocolate bar?

c) both?

8. Create a word problem, that can be solved with the following numeric expression:

a. $40:5 \cdot 7;$

b. $(12 + 24):3;$

c. $3 \cdot 4 + 2 \cdot 7;$