

# Домашнее задание 1.

11

a)

$$1) 589 \cdot 248 \approx 600 \cdot 200 = \underline{120.000}$$

$$\begin{array}{r} \begin{array}{r} \overset{1}{\cancel{5}} \overset{1}{\cancel{8}} \\ \overset{1}{\cancel{7}} \overset{1}{\cancel{4}} \\ \times 589 \\ \hline 248 \end{array} \\ + \begin{array}{r} \overset{1}{2} \overset{1}{3} \overset{1}{5} \overset{1}{6} \\ \hline 1178 \end{array} \\ \hline 146.072 \end{array}$$

$$589 \cdot 249 = \underline{146.072}$$

$$2) 2.593 \cdot 4709 \approx 3000 \cdot 5000 = \underline{15.000.000}$$

$$\begin{array}{r} \begin{array}{r} 2 \cancel{5} \cancel{3} \\ 4 \cancel{6} \cancel{2} \\ 5 \cancel{8} \cancel{2} \end{array} \\ \times \begin{array}{r} 2593 \\ 4709 \\ \hline \end{array} \\ + \begin{array}{r} 1123337 \\ 18151 \\ 10372 \\ \hline \end{array} \\ \hline \begin{array}{r} 12.210.437 \end{array} \end{array}$$

$$2.593 \cdot 4709 = \underline{12.210.437}$$

5)

$$1) 2383 + 1491 \approx 2.000 + 1.000 = \underline{3.000}$$

$$\underline{2} \underline{3} \underline{8} \underline{3} + \underline{1} \underline{4} \underline{9} \underline{1} = \underline{3} \underline{0} \underline{0} \underline{0} + \underline{7} \underline{0} \underline{0} + \underline{1} \underline{7} \underline{0} + \underline{4} = \underline{3874}$$

$$2) 18.020 + 9.347 \approx 18.000 + 9.000 = \underline{27.000}$$

$$\underline{18.020} + \underline{9.347} = \underline{27.000} + \underline{367} = \underline{27.367}$$

$$3) 63.215 - 37.409 \approx 63.000 - 37.000 = \underline{26.000}$$

$$63.215 - 37.409 = \underline{22.600} + \underline{3000} + \underline{206} =$$

The diagram illustrates the subtraction process for  $63.215 - 37.409$ . It shows the numbers broken down into their place value components:

- $63.215$  is decomposed into  $60.000$  (orange),  $3.000$  (green),  $200$  (blue), and  $15$  (purple).
- $37.409$  is decomposed into  $30.000$  (orange),  $7.000$  (green),  $400$  (blue), and  $9$  (purple).

Red arrows indicate the subtraction steps:

- A red arrow points from  $60.000$  to  $23.000$ .
- Another red arrow points from  $23.000$  to  $22.600$ .
- A third red arrow points from  $22.600$  to the final result  $25.806$ .

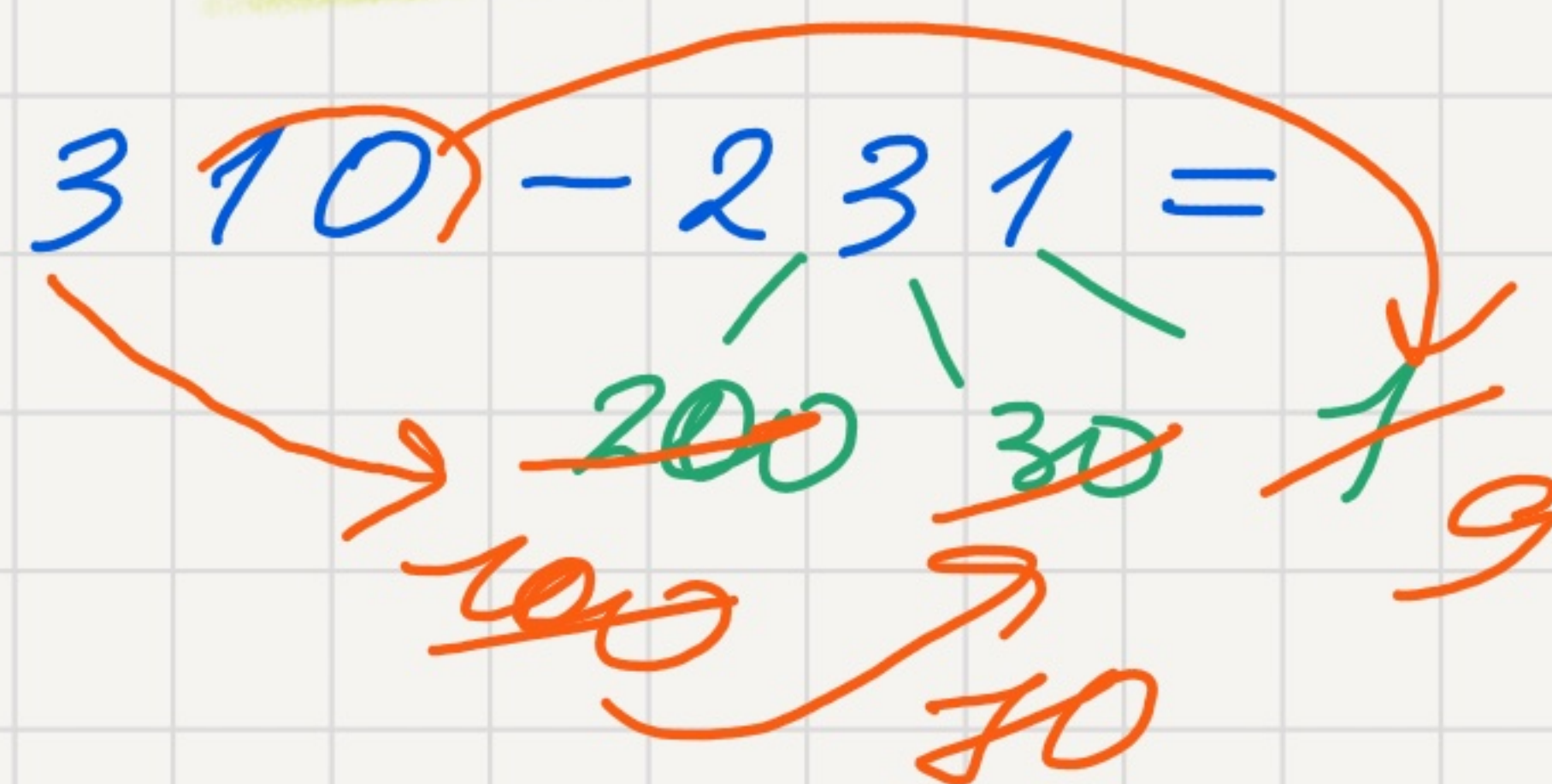
$$= \underline{25.806}$$

$$b) 1) 2079 : 231 \approx 20\cancel{0}\cancel{0} : 2\cancel{0}\cancel{0} = 10$$

$$231 \cdot 9 = 231 \cdot 10 - 231 = 2310 - 231 =$$

$$= 2079$$

$$2079 : 231 = 9$$



$$2) 4832 : 604 \approx 48\cancel{0}\cancel{0} : 6\cancel{0}\cancel{0} = 8$$

$$604 \cdot 8 = 4800 + 32 = 4832$$



$$48000$$

$$4832 : 604 = 8$$

$$3) 15860 : 305 \approx 1500 : 300 = 50$$

$$\begin{array}{r} \overset{1500}{-} 15860 \\ \underline{1525} \\ -610 \\ \underline{-610} \\ 0 \end{array} \quad \begin{array}{r} \overset{300}{1305} \\ \underline{52} \\ \cdot \\ \cdot \end{array}$$

$$305 \cdot 5 = 1500 + 25 = 1525$$

$$15860 : 305 = 52$$

$$2) 1) 16860 : 213 \approx 16000 : 200 = 80$$

$$\begin{array}{r} \overset{10}{-} 16860 \\ \underline{1491} \\ -1950 \\ \underline{1917} \\ 33 \end{array} \quad \begin{array}{r} \underline{213} \\ 79 \end{array}$$

$$213 \cdot 8 = 1600 + 80 + 24 =$$

$$= 1704$$

$$213 \cdot 7 = 1491$$

$$213 \cdot 9 = 1917$$

$$16860 : 213 = 79 \text{ (rem. 33)}$$

$$2) 154.591 : 192 \approx 160.0\cancel{0}\cancel{0} : 2\cancel{0}\cancel{0} = 800$$

$$\begin{array}{r} \overset{1600}{1} 54.591 \\ - 1536 \\ \hline 99 \\ \phantom{0}0 \\ \hline 991 \\ - 960 \\ \hline 31 \end{array}$$

$$\begin{array}{r} \overset{200}{1} 92 \\ \hline 805 \\ \hline \cdot \cdot \cdot \end{array}$$

$$192 \cdot 8 = 800 + 720 + 16 =$$

$$= 1536$$

$$192 \cdot 5 = 500 + 450 + 10 =$$

$$= 960$$

$$154.591 : 192 = 805 (\text{rem. } 31)$$

$$3) 6.101.490 : 304 \approx 6.000.0\cancel{0}\cancel{0} : 3\cancel{0}\cancel{0} = 20.000$$

$$\begin{array}{r} 6.101.490 \\ - 608 \\ \hline 21 \end{array}$$

$$\begin{array}{r} \overset{300}{1} 304 \\ \hline 20070 \\ \hline \cdot \cdot \cdot \cdot \cdot \end{array}$$

$$\begin{array}{r} 21 \\ \phantom{0}0 \\ \hline 2149 \\ - 2128 \\ \hline 210 \\ \phantom{0}0 \\ \hline 210 \end{array}$$

$$6.101.490 : 304 = 20070 (\text{rem. } 210)$$

$$4) 13.270.580 : 360 \approx 12.000.000 : 400 =$$

$$= 30.000$$

$$13.270.58\cancel{0} : 36\cancel{0} = 1327058 : 36 =$$

$$= 39.112 (\text{ост. } 260)$$

$$\begin{array}{r} \cdot 101 \\ - 13.2\overset{1}{7}0.58 \\ \underline{108} \\ - 247 \quad 240 \\ \underline{216} \\ - 310 \\ \underline{306} \\ - 40 \\ \underline{36} \\ - 45 \\ \underline{36} \\ - 98 \\ \underline{72} \\ 26 \end{array}$$

$$36 \cdot 4 = 120 + 24 = 144$$

$$36 \cdot 3 = 90 + 18 = 108$$

$$36 \cdot 6 = 180 + 36 = 216$$

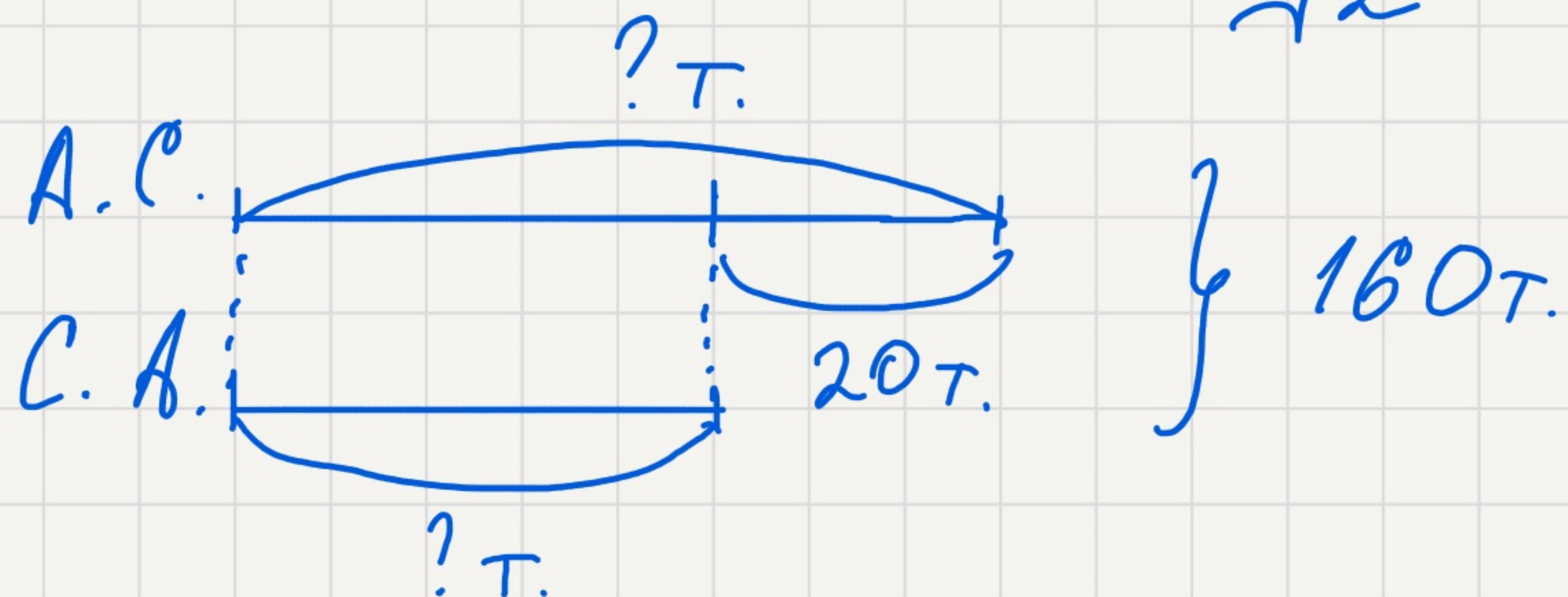
$$36 \cdot 9 = 360 - 36 = 324$$

Проверка:  $39112 \cdot 36\cancel{0} + 260 =$

$$= 13.270.580$$

Умножаем на первоначальный делитель!

√2



- 1)  $(160 - 20) : 2 = 70$  (T.) — проверка C. A.
- 2)  $70 + 20 = 90$  (T.) — проверка A. C.

Ответ: 70 T. — C. A.; 90 T. — A. C.