

# Uebungsblatt: Rechnen mit rationalen Zahlen 3

1.  $117 - (178 + 135) = -196$                        $72 - (70 + 198) = -196$

2.  $(-3) + 35 + (-47) + 79 = 64$

3.  $-\frac{3}{8} : (-\frac{1}{2}) = \frac{3}{4}$                        $-\frac{95}{12} : (-\frac{19}{6}) = \frac{5}{2}$

4.  $-\frac{57}{4} : (-\frac{19}{3}) = \frac{9}{4}$                        $-\frac{8}{25} : \frac{8}{5} = -\frac{1}{5}$

5.  $\frac{24}{5} : \frac{8}{3} = \frac{9}{5}$                        $-\frac{144}{25} : (-\frac{12}{5}) = \frac{12}{5}$

6.  $\frac{5}{2} \cdot (\frac{18}{5})^2 = 32.4$                        $(-\frac{11}{2}) \cdot (\frac{7}{3})^2 = -\frac{539}{18}$

7.  $-\frac{19}{6} \cdot (\frac{9}{5})^2 = -10.26$                        $-(-\frac{17}{5}) \cdot (\frac{7}{2})^2 = \frac{833}{20}$

8.  $(\frac{9}{2} + (-\frac{1}{2})) \cdot (7 - (-\frac{16}{5})) = \frac{204}{5}$

9.  $((-\frac{11}{2}) + (-\frac{1}{3})) \cdot ((-\frac{3}{4}) + (-\frac{11}{5})) = \frac{413}{24}$

10.  $(-\frac{8}{5}) \cdot (\frac{3}{5} - 10 + (-\frac{15}{4})) = \frac{526}{25}$

11.  $\frac{1}{5} \cdot (\frac{13}{3} + (-\frac{5}{3}) + (-\frac{17}{5})) = -\frac{11}{75}$

12.  $\frac{1}{2} \cdot ((-\frac{9}{2}) + 10 + 2) = \frac{15}{4}$

13.  $|16| - |-20| = -4$   
 $|8| + |-20| = 28$   
 $|-11| - |6| + |2| = 7$

14.  $|-23| = 23$   
 $|82| = 82$   
 $|(-3) \cdot (-23)| = 69$

15.  $0,86 - 0,3 - 0,47 = 0,09$

16.  $0,92 - 5,5 + 54,6 - 0,33 = 49,69$

17.  $(0,6 - 0,09) \cdot (26,86 - 9,5) = 8,8536$

18.  $14,95 : 11,5 = 1,3$                        $0,48 : 0,96 = 0,5$