

1. (a) richtig (Kommutativgesetz)
 (b) falsch
 (c) richtig
 (d) falsch $[100 : (2 : (10 : 5)) = 100 : (2 : 10 \cdot 5) = 100 : 2 \cdot 10 : 5]$

2. (a) $5242 \cdot 10 = 52420$
 (b) $100 \cdot 324 = 32400$
 (c) $736 \cdot 1000 = 736000$
 (d) $392 \cdot 10000 = 3920000$
 (e) $21000 \cdot 6 = 126000$
 (f) $120 \cdot 80 = 9600$
 (g) $700 \cdot 150 = 105000$
 (h) $300 \cdot 225 = 67500$
 (i) $50000 \cdot 112 = 5600000$
 (j) $847 \cdot 20000 = 16940000$

3. (a) $4 \cdot 33 \cdot 5 = (4 \cdot 5) \cdot 33 = 20 \cdot 33 = 660$
 (b) $5 \cdot 9 \cdot 16 = (5 \cdot 16) \cdot 9 = 80 \cdot 9 = 720$
 (c) $15 \cdot 17 \cdot 2 = (15 \cdot 2) \cdot 17 = 30 \cdot 17 = 510$
 (d) $75 \cdot 19 \cdot 4 = (75 \cdot 4) \cdot 19 = 300 \cdot 19 = 5700$
 (e) $8 \cdot 23 \cdot 25 = (8 \cdot 25) \cdot 23 = 200 \cdot 23 = 4600$
 (f) $20 \cdot 25 \cdot 7 \cdot 4 = (20 \cdot 7) \cdot (25 \cdot 4) = 140 \cdot 100 = 14000$

4. (a)
$$\begin{array}{r} 436 \cdot 205 \\ 1230 \\ 615- \\ 820- \\ \hline 89380 \end{array}$$
 (b)
$$\begin{array}{r} 398 \cdot 1075 \\ 8600 \\ 9675- \\ 3225- \\ \hline 427850 \end{array}$$
 (c)
$$\begin{array}{r} 979 \cdot 1438 \\ 12942 \\ 10066- \\ 12942- \\ \hline 1407802 \end{array}$$

5. (a) $1554 : 37 = 42$

$$\begin{array}{r} 1554 \\ -148 \\ \hline 74 \\ -74 \\ \hline 0 \end{array}$$

(b) $43326 : 498 = 87$

$$\begin{array}{r} -\underline{3984} \\ 3486 \\ -\underline{3486} \\ 0 \end{array}$$

(c) $360528 : 609 = 592$

$$\begin{array}{r} -\underline{3045} \\ 5602 \\ -\underline{5481} \\ 1218 \\ -\underline{1218} \\ 0 \end{array}$$

6. (a) $800 : (20 \cdot 5) = 800 : 100 = 8$

$$800 : (20 \cdot 5) = 800 : 20 : 5 = 40 : 5 = 8$$

(b) $800 \cdot (20 \cdot 5) = 800 \cdot 100 = 80000$

$$800 \cdot (20 \cdot 5) = 800 \cdot 20 \cdot 5 = 16000 \cdot 5 = 80000$$

(c) $800 : (20 : 5) = 800 : 4 = 200$

$$800 : (20 : 5) = 800 : 20 \cdot 5 = 40 \cdot 5 = 200$$

(d) $800 \cdot (20 : 5) = 800 \cdot 4 = 3200$

$$800 \cdot (20 : 5) = 800 \cdot 20 : 5 = 16000 : 5 = 3200$$