



**Aufgabe 7**

a)

$$\frac{6}{11} : 3 = \frac{6}{11 \cdot 3} = \frac{6}{33} = \frac{2}{11}$$

Probe:

$$\frac{2}{11} \cdot 3 = \frac{2 \cdot 3}{11} = \frac{6}{11}$$

b)

$$\frac{5}{9} : 9 = \frac{5}{9 \cdot 9} = \frac{5}{81}$$

Probe:

$$\frac{5}{81} \cdot 9 = \frac{5 \cdot 9}{81} = \frac{5}{9}$$

c)

$$\frac{18}{5} : 10 = \frac{18}{5 \cdot 10} = \frac{18}{50} = \frac{9}{25}$$

Probe:

$$\frac{9}{25} \cdot 10 = \frac{9 \cdot 10}{25} = \frac{9 \cdot 2}{5} = \frac{18}{5}$$

d)

$$\frac{14}{15} : 21 = \frac{14}{15 \cdot 21} = \frac{2}{15 \cdot 3} = \frac{2}{45}$$

Probe:

$$\frac{2}{45} \cdot 21 = \frac{2 \cdot 21}{45} = \frac{2 \cdot 7}{15} = \frac{14}{15}$$

e)

$$\frac{21}{8} : 12 = \frac{21}{8 \cdot 12} = \frac{7}{8 \cdot 4} = \frac{7}{32}$$

Probe:

$$\frac{7}{32} \cdot 12 = \frac{7 \cdot 12}{32} = \frac{7 \cdot 3}{8} = \frac{21}{8}$$

f)

$$\frac{13}{100} : 39 = \frac{13}{100 \cdot 39} = \frac{1}{100 \cdot 3} = \frac{1}{300}$$

Probe:

$$\frac{1}{300} \cdot 39 = \frac{1 \cdot 39}{300} = \frac{1 \cdot 13}{100} = \frac{13}{100}$$

g)

$$\frac{2}{3} : 5 = \frac{2}{3 \cdot 5} = \frac{2}{15}$$

Probe:

$$\frac{2}{15} \cdot 5 = \frac{2 \cdot 5}{15} = \frac{2}{3}$$

h)

$$\frac{16}{25} : 4 = \frac{16}{25 \cdot 4} = \frac{4}{25 \cdot 1} = \frac{4}{25}$$

Probe:

$$\frac{4}{25} \cdot 4 = \frac{4 \cdot 4}{25} = \frac{16}{25}$$

i)

$$\frac{4}{9} : 10 = \frac{4}{9 \cdot 10} = \frac{2}{9 \cdot 5} = \frac{2}{45}$$

Probe:

$$\frac{2}{45} \cdot 10 = \frac{2 \cdot 10}{45} = \frac{2 \cdot 2}{9} = \frac{4}{9}$$

j)

$$\frac{8}{11} : 8 = \frac{8}{11 \cdot 8} = \frac{1}{11 \cdot 1} = \frac{1}{11}$$

Probe:

$$\frac{1}{11} \cdot 8 = \frac{1 \cdot 8}{11} = \frac{8}{11}$$

k)

$$\frac{7}{8} : 3 = \frac{7}{8 \cdot 3} = \frac{7}{24}$$

Probe:

$$\frac{7}{24} \cdot 3 = \frac{7 \cdot 3}{24} = \frac{7 \cdot 1}{8} = \frac{7}{8}$$

l)

$$\frac{5}{9} : 25 = \frac{5}{9 \cdot 25} = \frac{1}{9 \cdot 5} = \frac{1}{45}$$

Probe:

$$\frac{1}{45} \cdot 25 = \frac{1 \cdot 25}{45} = \frac{1 \cdot 5}{9} = \frac{5}{9}$$