

Brüche multiplizieren

Lösungsblatt

LEVEL 1

$$3 \cdot \frac{1}{5} = \frac{3}{5}$$

$$\frac{1}{7} \cdot 4 = \frac{4}{7}$$

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

$$\frac{1}{6} \cdot 5 = \frac{5}{6}$$

$$1 \cdot \frac{1}{4} = \frac{1}{4}$$

$$4 \cdot \frac{3}{4} = \frac{12}{4} = 3$$

$$\frac{2}{3} \cdot 6 = \frac{12}{3} = 4$$

$$5 \cdot \frac{2}{5} = \frac{10}{5} = 2$$

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

$$3 \cdot \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$$

$$\frac{1}{8} \cdot 2 = \frac{2}{8} = \frac{1}{4}$$

$$3 \cdot \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$$

$$\frac{5}{8} \cdot 5 = \frac{25}{8} = 3\frac{1}{8}$$

Eine Flasche Sekt enthält $\frac{7}{10}$ Liter. Wie viel Liter enthalten ... a) 3 Flaschen Sekt? b) 5 Flaschen Sekt?

$$\frac{7}{10} \cdot 3 = \frac{21}{10} = 2\frac{1}{10}l$$

$$\frac{7}{10} \cdot 5 = \frac{35}{10} = 3\frac{5}{10} = 3\frac{1}{2}l$$

LEVEL 2

$$4 \cdot \frac{5}{6} = \frac{20}{6} = 3\frac{2}{6} = 3\frac{1}{3}$$

$$\frac{5}{8} \cdot 2 = \frac{10}{8} = 1\frac{2}{8} = 1\frac{1}{4}$$

$$\frac{8}{10} \cdot 4 = \frac{32}{10} = 3\frac{2}{10} = 3\frac{1}{5}$$

$$2 \cdot 1\frac{1}{5} = 2 \cdot \frac{6}{5} = \frac{12}{5} = 2\frac{2}{5}$$

$$4 \cdot 1\frac{1}{6} = 4 \cdot \frac{7}{6} = \frac{28}{6} = 4\frac{4}{6} = 4\frac{2}{3}$$

Von einer Rolle Stoff werden sieben Mal jeweils $2\frac{1}{2}$ m abgeschnitten. Wie viel m wurden insgesamt abgeschnitten?

$$2\frac{1}{2} \cdot 7 = \frac{5}{2} \cdot 7 = \frac{35}{2} = 17\frac{1}{2}m$$

LEVEL 3

$$\frac{3}{4} \cdot \frac{5}{4} = \frac{15}{16}$$

$$\frac{5}{2} \cdot \frac{7}{2} = \frac{35}{4} = 8\frac{3}{4}$$

$$\frac{9}{4} \cdot \frac{4}{3} = \frac{36}{12} = 3$$

$$\frac{1}{6} \cdot 2\frac{2}{3} = \frac{1}{6} \cdot \frac{8}{3} = \frac{8}{18} = \frac{4}{9}$$

$$4\frac{1}{3} \cdot \frac{3}{5} = \frac{13}{3} \cdot \frac{3}{5} = \frac{39}{15} = \frac{13}{5} = 2\frac{3}{5}$$

$$1\frac{5}{6} \cdot 1\frac{1}{2} = \frac{11}{6} \cdot \frac{3}{2} = \frac{33}{12} = \frac{11}{4} = 2\frac{3}{4}$$

$$4\frac{2}{3} \cdot 2\frac{1}{2} = \frac{14}{3} \cdot \frac{5}{2} = \frac{70}{6} = \frac{35}{3} = 11\frac{2}{3}$$

$$3\frac{3}{4} \cdot 2\frac{2}{3} = \frac{15}{4} \cdot \frac{8}{3} = \frac{120}{12} = 10$$

$$5\frac{2}{5} \cdot 3\frac{1}{3} = \frac{27}{5} \cdot \frac{10}{3} = \frac{270}{15} = \frac{270}{15} = 18$$