

facit

Brøkregning 2

F8

ejderskolen

SN

forkort brøkerne - opgave 1

a) $\frac{6 \cdot 3 \cdot 9}{9 \cdot 12} = \frac{3}{2} = \underline{\underline{\frac{1}{2}}}$

b) $\frac{25 \cdot 36}{360 \cdot 5} = \underline{\underline{\frac{1}{2}}}$

c) $\frac{5 \cdot 12 \cdot 2}{144 \cdot 3} = \underline{\underline{\frac{5}{18}}}$

d) $\frac{27 \cdot 25 \cdot 21}{35 \cdot 36 \cdot 42} = \underline{\underline{\frac{15}{56}}}$

e) $\frac{2 \cdot 16}{36 \cdot 8} = \underline{\underline{\frac{1}{9}}}$

f) $\frac{35 \cdot 8 \cdot 4}{20 \cdot 7 \cdot 3} = \frac{8}{3} = \underline{\underline{2\frac{2}{3}}}$

g) $\frac{5 \cdot 2 \cdot 24}{120} = \underline{\underline{2}}$

g) $\frac{45 \cdot 40 \cdot 33}{66 \cdot 63 \cdot 64} = \frac{25}{112}$



reducér brøkerne - opgave 2

a) $\frac{x^4 \cdot y^2}{y^3} = \underline{\underline{\frac{x^4}{y}}}$

b) $\frac{x^4 \cdot x^2}{x^3} = \underline{\underline{x^3}}$

c) $\frac{a^2 \cdot b^3}{a \cdot b^2} = \underline{\underline{a \cdot b}}$

e) $\frac{12 \cdot 4 \cdot b^6}{b^2 \cdot b^4 \cdot 8} = \underline{\underline{6}}$

f) $\frac{a^2 \cdot a \cdot 3^3}{9 \cdot a^5} = \underline{\underline{\frac{3}{a^2}}}$

g) $\frac{x^2 \cdot y^4 \cdot x}{x \cdot y^2} = \underline{\underline{x^2 \cdot y^2}}$

regn ud - resultater må ikke indeholde et decimaltal

opgave 3

a) $776\frac{4}{7} : 8$

b) $273\frac{3}{5} : 6$

c) $387\frac{1}{2} : 8$

d) $653\frac{1}{3} : 14$

opgave 4

a) $1275 : 8$

b) $1729 : 15$

c) $5435 : 13$

d) $7567 : 32$



3

$$776 \frac{4}{7} : 8 = \underline{\underline{97 \frac{1}{14}}}$$

a)
$$\begin{array}{r} 72 \\ \hline 56 \\ \hline 56 \end{array}$$

$$\frac{4}{7} : 8 \Rightarrow \frac{4}{7 \cdot 8} = \frac{1}{14}$$

$$273 \frac{3}{5} : 6 = \underline{\underline{45 \frac{3}{5}}}$$

b)
$$\begin{array}{r} 24 \\ \hline 33 \\ \hline 30 \end{array}$$

$$3 \frac{3}{5} : 6 \Rightarrow \frac{18 : 6}{5} = \frac{3}{5}$$

$$387 \frac{1}{2} : 8 = \underline{\underline{48 \frac{7}{16}}}$$

c)
$$\begin{array}{r} 32 \\ \hline 67 \\ \hline 64 \end{array}$$

$$3 \frac{1}{2} : 8 = \frac{7}{2 \cdot 8} = \frac{7}{16}$$

$$653 \frac{1}{3} : 14 = \underline{\underline{46 \frac{2}{3}}}$$

d)
$$\begin{array}{r} 56 \\ \hline 93 \\ \hline 84 \end{array}$$

$$9 \frac{1}{3} : 14 = \frac{28 : 14}{3} = \frac{2}{3}$$

4

$$1275 : 8 = \underline{\underline{159 \frac{3}{8}}}$$

a)
$$\begin{array}{r} 8 \\ \hline 47 \\ \hline 40 \\ \hline 75 \\ \hline 72 \\ \hline 3 : 8 \end{array}$$

$$1729 : 15 = \underline{\underline{115 \frac{4}{15}}}$$

b)
$$\begin{array}{r} 15 \\ \hline 22 \\ \hline 15 \\ \hline 79 \\ \hline 75 \\ \hline 4 \end{array}$$

$$5435 : 13 = \underline{\underline{418 \frac{1}{13}}}$$

c)
$$\begin{array}{r} 52 \\ \hline 23 \\ \hline 13 \\ \hline 105 \\ \hline 104 \end{array}$$

$$7567 : 32 = \underline{\underline{236 \frac{15}{32}}}$$

d)
$$\begin{array}{r} 64 \\ \hline 116 \\ \hline 96 \\ \hline 207 \\ \hline 192 \\ \hline 15 \end{array}$$