Activités Mentales

24 Août 2023

$$\begin{array}{r}
 -24 \\
 \hline
 30 \\
 \hline
 -18 \\
 \hline
 60
 \end{array}$$

-10
60
40
$\overline{12}$

$$\begin{array}{r}
 36 \\
 -45 \\
 \hline
 -27 \\
 \hline
 -60 \\
 \end{array}$$

$$\frac{-60}{-12}$$
 $\frac{80}{6}$

$$\begin{aligned} \frac{-24}{30} \\ \frac{-18}{60} &= \frac{-24}{30} \times \frac{60}{-18} = \frac{(-24) \times 60}{30 \times (-18)} \\ &= \frac{2 \times (-12) \times 10 \times 6}{10 \times 3 \times 2 \times (-9)} \\ &= \frac{2 \times 3 \times (-4) \times 10 \times 3 \times 2}{10 \times 3 \times 1 \times 2 \times 3 \times (-3)} \\ &= \frac{(-4) \times 2}{1 \times (-3)} \\ &= \frac{8}{3} \end{aligned}$$

$$\frac{-10}{\frac{60}{12}} = \frac{-10}{60} \times \frac{12}{40} = \frac{(-10) \times 12}{60 \times 40}$$

$$= \frac{2 \times (-5) \times 3 \times 4}{3 \times 20 \times 2 \times 20}$$

$$= \frac{2 \times 5 \times (-1) \times 3 \times 4 \times 1}{3 \times 4 \times 5 \times 2 \times 5 \times 4}$$

$$= \frac{(-1) \times 1}{5 \times 4}$$

$$= \frac{-1}{20}$$

$$\frac{\frac{60}{-25}}{\frac{100}{50}} = \frac{60}{-25} \times \frac{50}{100} = \frac{60 \times 50}{(-25) \times 100}$$

$$= \frac{4 \times 15 \times 5 \times 10}{5 \times (-5) \times 4 \times 25}$$

$$= \frac{4 \times 5 \times 3 \times 5 \times 5 \times 2}{5 \times 5 \times (-1) \times 4 \times 5 \times 5}$$

$$= \frac{3 \times 2}{(-1) \times 5}$$

$$= \frac{-6}{5}$$

$$\frac{\frac{36}{-45}}{\frac{-27}{-60}} = \frac{36}{-45} \times \frac{-60}{-27} = \frac{36 \times (-60)}{(-45) \times (-27)}$$

$$= \frac{3 \times 12 \times 3 \times (-20)}{3 \times (-15) \times 3 \times (-9)}$$

$$= \frac{3 \times 3 \times 4 \times 3 \times 5 \times (-4)}{3 \times 5 \times (-3) \times 3 \times 3 \times (-3)}$$

$$= \frac{4 \times (-4)}{(-3) \times (-3)}$$

$$= \frac{-16}{9}$$

$$\frac{-60}{-12} = \frac{-60}{-12} \times \frac{6}{80} = \frac{(-60) \times 6}{(-12) \times 80}$$

$$= \frac{10 \times (-6) \times 2 \times 3}{2 \times (-6) \times 10 \times 8}$$

$$= \frac{10 \times 2 \times (-3) \times 2 \times 3 \times 1}{2 \times 3 \times (-2) \times 10 \times 2 \times 4}$$

$$= \frac{(-3) \times 1}{(-2) \times 4}$$

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