

Exercice corrigé

Calcule et simplifie le résultat :

$$D = \frac{8}{7} \times \frac{5}{3} \text{ et } F = \frac{4}{15} \times \frac{25}{8}$$

Correction

$$D = \frac{8}{7} \times \frac{5}{3}$$

$$D = \frac{8 \times 5}{7 \times 3}$$

$$D = \frac{40}{21}$$

$$F = \frac{4}{15} \times \frac{25}{8}$$

$$F = \frac{4 \times 25}{15 \times 8}$$

$$F = \frac{4 \times 5 \times 5}{3 \times 5 \times 4 \times 2}$$

$$F = \frac{5}{3 \times 2}$$

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

Multiplier

1 Écris chaque facteur sous forme décimale afin d'effectuer le produit, puis donne le résultat sous forme d'une fraction décimale.

$$A = \frac{3}{10} \times \frac{5}{10}$$

$$A = \frac{3 \times 5}{10 \times 10}$$

$$A = \dots\dots\dots$$

$$A = \frac{15}{100} = \frac{3}{20}$$

$$= 0,15$$

$$B = \frac{75}{10} \times \frac{12}{10}$$

$$B = \frac{75 \times 12}{10 \times 10}$$

$$B = \frac{3}{2} = 1,5$$

$$C = \frac{25}{10} \times \frac{15}{100}$$

$$C = \frac{25 \times 15}{10 \times 100}$$

$$C = \frac{3}{8} = 0,375$$

$$D = 4 \times \frac{14}{10}$$

$$D = \frac{4 \times 14}{1 \times 10}$$

$$D = \frac{28}{5} = 5,6$$

2 Complète les calculs suivants en utilisant la règle de multiplication.

$$A = \frac{4}{3} \times \frac{7}{5}$$

$$A = \frac{4 \times 7}{3 \times 5}$$

$$A = \frac{28}{15}$$

$$B = \frac{1}{5} \times \frac{1}{8}$$

$$B = \frac{1 \times 1}{5 \times 8}$$

$$B = \frac{1}{40}$$

$$C = \frac{4}{5} \times \frac{7}{3}$$

$$C = \frac{4 \times 7}{5 \times 3}$$

$$C = \frac{28}{15}$$

$$D = \frac{4}{7} \times \frac{4}{3}$$

$$D = \frac{4 \times 4}{7 \times 3}$$

$$D = \frac{16}{21}$$

$$E = \frac{7}{5} \times \frac{7}{5}$$

$$E = \frac{7 \times 7}{5 \times 5}$$

$$E = \frac{49}{25}$$

$$F = 7 \times \frac{3}{10}$$

$$F = \frac{7 \times 3}{1 \times 10}$$

$$F = \frac{21}{10}$$

$$G = \frac{1}{2} \times \frac{3}{5} \times \frac{7}{4}$$

$$G = \frac{1 \times 3 \times 7}{2 \times 5 \times 4}$$

$$G = \frac{21}{40}$$

$$H = 5 \times \frac{1}{7} \times \frac{8}{3}$$

$$H = \frac{5 \times 1 \times 8}{1 \times 7 \times 3}$$

$$H = \frac{40}{21}$$

3 Calcule mentalement.

$$a. \frac{11}{3} \times \frac{2}{5} = \frac{22}{15}$$

$$b. \frac{7}{2} \times \frac{3}{5} = \frac{21}{10}$$

$$c. \frac{3}{14} \times 0 = 0$$

$$d. \frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$$

$$e. \frac{2,5}{7} \times \frac{4}{3} = \frac{10}{21}$$

$$f. \frac{1,2}{7} \times \frac{5}{7} = \frac{6}{49}$$

$$g. \frac{5}{2} \times 7 = \frac{35}{2}$$

$$h. 1 \times \frac{27}{32} = \frac{27}{32}$$

$$i. 5 \times \frac{7}{2} = \frac{35}{2}$$

$$j. \frac{2}{5} \times \frac{5}{7} = \frac{10}{35} = \frac{2}{7}$$

$$k. \frac{41}{13} \times \frac{13}{27} = \frac{41}{27}$$

$$l. \frac{3}{4} \times \frac{13}{14} = \frac{39}{56}$$

$$m. 2 \times \frac{5}{2} = 5$$

$$n. \frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} = \frac{1}{4}$$

$$o. \frac{2}{7} \times \frac{7}{11} \times \frac{7}{9} = \frac{14}{99}$$

$$p. 4 \times \frac{9}{2} \times \frac{3}{4} = \frac{27}{2}$$