

FC 14 : Simplification incorrecte

TI Collège™ Plus

1. Simplifier les fractions suivantes.
2. Vérifier la réponse avec la calculatrice.

$$A = \frac{4}{28}$$

$$\dots A = \frac{4 \times 1}{4 \times 7} \dots A = \frac{\cancel{4} \times 1}{\cancel{4} \times 7} \dots A = \frac{1}{7}$$

Calculatrice :

$\boxed{4} \boxed{\frac{a}{b}} \boxed{2} \boxed{8} \boxed{\text{entrer}}$

Calculator screen showing the fraction 4/28 and its simplified result 1/7. The screen also displays 'DEG' and a fraction key icon.

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

$$\dots B = \frac{\cancel{2} \times \cancel{3} \times 1}{\cancel{2} \times \cancel{3} \times 5} \dots B = \frac{1}{5}$$

Calculatrice :

$\boxed{\frac{a}{b}} \boxed{2} \boxed{\times} \boxed{3} \boxed{\div} \boxed{2} \boxed{\times} \boxed{3} \boxed{\times} \boxed{5} \boxed{\text{entrer}}$

Calculator screen showing the fraction (2*3)/(2*3*5) and its simplified result 1/5. The screen also displays 'DEG' and a fraction key icon.

$$C = \frac{66}{11 \times 7}$$

$$\dots C = \frac{11 \times 6}{11 \times 7} \dots C = \frac{\cancel{11} \times 6}{\cancel{11} \times 7} \dots C = \frac{6}{7}$$

Calculatrice :

$\boxed{6} \boxed{6} \boxed{\frac{a}{b}} \boxed{1} \boxed{1} \boxed{\times} \boxed{7} \boxed{\text{entrer}}$

Calculator screen showing the fraction 66/(11*7) and its simplified result 6/7. The screen also displays 'DEG' and a fraction key icon.

$$D = \frac{880}{1040}$$

$$\dots D = \frac{88}{104} \dots D = \frac{8 \times 11}{8 \times 13} \dots D = \frac{\cancel{8} \times 11}{\cancel{8} \times 13}$$

$$D = \frac{11}{13}$$

Calculatrice :

$\boxed{8} \boxed{8} \boxed{0} \boxed{\frac{a}{b}} \boxed{1} \boxed{0} \boxed{4} \boxed{0} \boxed{\text{entrer}}$

Calculator screen showing the fraction 880/1040 and its simplified result 11/13. The screen also displays 'DEG' and a fraction key icon.

N.B. Placer la calculatrice en mode **simplification manuelle** permet de montrer les simplifications opérées pas à pas. Par exemple, pour **D** :

$\boxed{8} \boxed{8} \boxed{0} \boxed{\frac{a}{b}} \boxed{1} \boxed{0} \boxed{4} \boxed{0} \boxed{\text{entrer}} \boxed{\rightarrow \text{simp}} \boxed{\text{entrer}} \dots \dots \dots \boxed{\rightarrow \text{simp}} \boxed{\text{entrer}} \dots \dots \dots \boxed{\rightarrow \text{simp}} \boxed{\text{entrer}}$

Calculator screen showing the step-by-step simplification of 880/1040. It shows 880/1040, then 88/104 after pressing 'simp', and finally 11/13 after another 'simp'. The screen also displays 'DEG', a fraction key icon, and 'Fac=2'.

Calculator screen showing the step-by-step simplification of 44/52. It shows 44/52, then 11/13 after pressing 'simp', and finally 11/13 after another 'simp'. The screen also displays 'DEG', a fraction key icon, and 'Fac=2'.

Calculator screen showing the step-by-step simplification of 22/26. It shows 22/26, then 11/13 after pressing 'simp', and finally 11/13 after another 'simp'. The screen also displays 'DEG', a fraction key icon, and 'Fac=2'.